

## Disclaimer

The following report(s) provides findings from an FDA-initiated query using Sentinel. While Sentinel queries may be undertaken to assess potential medical product safety risks, they may also be initiated for various other reasons. Some examples include determining a rate or count of an identified health outcome of interest, examining medical product use, exploring the feasibility of future, more detailed analyses within Sentinel, and seeking to better understand Sentinel capabilities.

Data obtained through Sentinel are intended to complement other types of evidence such as preclinical studies, clinical trials, postmarket studies, and adverse event reports, all of which are used by FDA to inform regulatory decisions regarding medical product safety. The information contained in this report is provided as part of FDA's commitment to place knowledge acquired from Sentinel in the public domain as soon as possible. Any public health actions taken by FDA regarding products involved in Sentinel queries will continue to be communicated through existing channels.

FDA wants to emphasize that the fact that FDA has initiated a query involving a medical product and is reporting findings related to that query does not mean that FDA is suggesting health care practitioners should change their prescribing practices for the medical product or that patients taking the medical product should stop using it. Patients who have questions about the use of an identified medical product should contact their health care practitioners.

The following report contains a description of the request, request specifications, and results from the modular program run(s).

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## Overview for Request cder\_mpl1p\_wp089 (Report 2 of 3)

**Request ID:** cder\_mpl1p\_wp089

**Request Description:** Lyme disease can be prevented by taking one dose of doxycycline (200 mg or 4.4 mg/kg for persons <45 kg) when administered within 72 hours after a high-risk tick bite. To shed light on patterns of Lyme disease post-exposure prophylaxis (PEP) in the United States, we characterized the frequency and patterns of single dose doxycycline over time, and described characteristics of individuals with these dispensings in the Sentinel Distributed Database (SDD).

**Sentinel Routine Querying Module:** Cohort Identification and Descriptive Analysis (CIDA) module, version 13.1.2, with custom programming.

**Data Source:** We distributed this request to five Sentinel Data Partners on December 2, 2024. These five Data Partners are a subset of the SDD. In this report (2 of 3), patients with claims coverage were included. Report 1 of 3 contains patients with Medicaid coverage. Report 3 of 3 contains patients with Medicaid coverage and claims coverage. The study period included data from January 1, 2016 through December 31, 2020. Please see Appendix A for a list of dates of available data for each Data Partner.

**Study Design:** We identified individuals of all ages with an incident dispensing of single-dose doxycycline. We described single-dose doxycycline dispensing trends over time, as well as patient and dispensing characteristics (e.g., year of dispensing, sex, age, race, ethnicity, type of recent medical encounter). Due to the highly focal geographic distribution of Lyme disease, we examined single-dose doxycycline dispensings by state, urbanicity, and month. We also described the number and proportion of individuals dispensed multiple courses of single-dose doxycycline, and performed a sensitivity analysis removing dispensings with evidence of obstetric or dermatologic conditions in the surrounding 30 days as single dose doxycycline can also be prescribed to treat certain obstetric and dermatologic conditions. This is a Type 1 analysis in the Query Request Package (QRP) documentation, modified with custom programming.

**Exposure of Interest:** Lyme disease PEP was our exposure of interest, and thus we examined qualifying dispensings of doxycycline (index) ( $\leq 200$  mg, one-day supply). To ensure the dispensing was isolated (i.e., only a single day supply), we defined incidence with a one day washout prior to and following the dispensing of interest, with consideration of any doxycycline dispensing. Specifically, we removed doxycycline dispensings with evidence of another dispensing (dispensing itself, or day supply of multi-day dispensing) in the day prior, and did not include doxycycline dispensings with evidence of another doxycycline dispensing the next day. Please see Appendix B for a list of generic and brand names of medical products.

**Cohort Eligibility Criteria:** We required cohort members to be enrolled in health plans with medical and drug coverage in the 30 days prior to and following their index dispensing; a gap in coverage of up to 45 days was allowed and treated as continuous enrollment. There were two separate age groupings included in analyses: Age group number one in years: 0-4, 4-9, 10-14, 15-19; Age group number two in years: 0-7, 8-19.

**Baseline Characteristics:** We assessed the baseline characteristics in two windows surrounding the index dispensing: 7 and 30 days prior to and following the index dispensing. The exposure related baseline characteristics of interest were: arthropod encounter, Lyme disease, other tickborne diseases, obstetric conditions, and dermatologic conditions. Additionally, we assessed the following Pediatric Comorbidity Index (PCI)<sup>1</sup> conditions: attention deficit hyperactivity disorder, alcohol abuse or dependence, anemia, anxiety or panic disorder, any malignancy, asthma, cardiovascular conditions, chromosomal anomalies, conduct disorder, congenital malformations, depression, developmental delays, diabetes mellitus, drug abuse or dependence, eating disorders, epilepsy or convulsions, gastrointestinal conditions, injuries, joint disorders, menstrual disorders, migraine or headache, nausea and vomiting, obesity or overweight, obsessive-compulsive disorder, pain conditions, pervasive developmental disorders, psychotic disorders, rheumatologic disorders, sleep disorders, smoking, specific personality disorder, weight loss. Please see Appendix C for a list of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) diagnosis codes, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) procedure codes, Current Procedural Terminology, Fourth Edition (CPT-4) procedure codes, and Healthcare Common Procedure Coding System (HCPCS) procedure codes we used to define baseline characteristics in this request.

## Overview for Request cder\_mpl1p\_wp089 (Report 2 of 3)

We evaluated the following characteristics on the index dispensing date: age, year, dispensing form, and dispensing dose. Dose was calculated as the strength of the National Drug Code (NDC) multiplied by the amount supplied for all routes except syrups and solutions, for which the strength multiplied by the liquid volume unit. For each member with a dispensing of interest, we evaluated: sex, race, ethnicity, and zip code. Zip code was used to assign state, Lyme disease incidence category, and urbanicity. To classify persons as living in an urban area (population  $\geq 50,000$ ), suburban area (population  $\geq 2,500$ ,  $< 50,000$ ), or rural area (population  $< 2,500$ ), we used U.S. Census Bureau 2010 Census Urban Area data supplemented by Uniform Data System (UDS) Mapper for zip code to zip code tabulation area (ZCTA) crosswalks. In cases of a zip code mapping to multiple urban categories, we assigned the category based on the following guidelines:

- Suburban + Rural -> Suburban
- Suburban + Urban -> Suburban
- Rural + Urban + Suburban -> Suburban
- Rural + Urban -> Urban

In the Sentinel Common Data Model, there is one zip code assigned per member, and zip codes are updated and overwritten as the member's location changes over time. The location reflected in this report is the member's most recent zip code.

**Sensitivity Analyses:** We performed sensitivity analyses examining the first qualifying index dispensing of doxycycline per patient, and then all qualifying dispensings per patient. In the analysis examining all qualifying dispensings per patient we allowed cohort re-entry. Additionally, we conducted a second sensitivity analysis which excluded patients with any evidence of obstetric and dermatologic conditions in the 30 days prior to and post index dispensing. Cohort re-entry was allowed for sensitivity analyses. Only counts of patients with single-dose doxycycline dispensings were included in the sensitivity analyses. Please see Appendix D for a list of ICD-10-CM, ICD-10-PCS, CPT-4, and HCPCS codes used to define this exclusion criteria in this request.

**Please see Appendices E-I for the specifications of parameters used in this request and the study design diagrams.**

**Limitations:** The algorithms used to define the events are imperfect; thus, it is possible that there may be misclassification. Therefore, data should be interpreted with this limitation in mind. Although we stratified some estimates by race/ethnicity, please keep in mind that this information is not well captured in many systems. In addition, our program assigned state of residence and urbanicity using enrollee's most recent zip code, which may not reflect residence or place of exposure at the time of the single dose doxycycline dispensing.

**Notes:** Please contact the Sentinel Operations Center ([info@sentinelssystem.org](mailto:info@sentinelssystem.org)) for questions and to provide comments/suggestions for future enhancements to this document. For more information on Sentinel's routine querying modules, please refer to the documentation (<https://dev.sentinelssystem.org/projects/SENTINEL/repos/sentinel-routine-querying-tool-documentation/browse>).

<sup>1</sup> Sun, J. W., Bourgeois, F. T., Haneuse, S., Hernández-Díaz, S., Landon, J. E., Bateman, B. T., Huybrechts, K. F. Development and validation of a pediatric comorbidity index. *American Journal of Epidemiology*. 2020;190(5):918-927.

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**Glossary of Terms for Analyses Using  
Cohort Identification and Descriptive Analysis (CIDA) Module\***

**Amount Supplied** - number of units (pills, tablets, vials) dispensed. Net amount per NDC per dispensing.

**Blackout Period** - number of days at the beginning of a treatment episode that events are to be ignored. If an event occurs during the blackout period, the episode is excluded.

**Care Setting** - type of medical encounter or facility where the exposure, event, or condition code was recorded.

Possible care settings include: Inpatient Hospital Stay (IP), Non-Acute Institutional Stay (IS), Emergency Department (ED), Ambulatory Visit (AV), and Other Ambulatory Visit (OA). For laboratory results, possible care settings include: Emergency Department (E), Home (H), Inpatient (I), Outpatient (O), or Unknown or Missing (U). The Care Setting, along with the Principal Diagnosis Indicator (PDX), forms the Care Setting/PDX parameter.

**Ambulatory Visit (AV)** - includes visits at outpatient clinics, same-day surgeries, urgent care visits, and other same-day ambulatory hospital encounters, but excludes emergency department encounters.

**Emergency Department (ED)** - includes ED encounters that become inpatient stays (in which case inpatient stays would be a separate encounter). Excludes urgent care visits.

**Inpatient Hospital Stay (IP)** - includes all inpatient stays, same-day hospital discharges, hospital transfers, and acute hospital care where the discharge is after the admission date.

**Non-Acute Institutional Stay (IS)** - includes hospice, skilled nursing facility (SNF), rehab center, nursing home, residential, overnight non-hospital dialysis and other non-hospital stays.

**Other Ambulatory Visit (OA)** - includes other non overnight AV encounters such as hospice visits, home health visits, skilled nursing facility visits, other non-hospital visits, as well as telemedicine, telephone and email consultations.

**Charlson/Elixhauser Combined Comorbidity Score** - calculated based on comorbidities observed during a requester-defined window around the exposure episode start date (e.g., in the 183 days prior to index).

**Code Days** - the minimum number of times the diagnosis must be found during the evaluation period in order to fulfill the algorithm to identify the corresponding patient characteristic.

**Cohort Definition (drug/exposure)** - indicates how the cohort will be defined: 01: Cohort includes only the first valid treatment episode during the query period; 02: Cohort includes all valid treatment episodes during the query period; 03: Cohort includes all valid treatment episodes during the query period until an event occurs.

**Computed Start Marketing Date** - represents the first observed dispensing date among all valid users within a GROUP (scenario) within each Data Partner site.

**Days Supplied** - number of days supplied for all dispensings in qualifying treatment episodes.

**Eligible Members** - number of members eligible for an incident treatment episode (defined by the drug/exposure and event washout periods) with drug and medical coverage during the query period.

**Enrollment Gap** - number of days allowed between two consecutive enrollment periods without breaking a "continuously enrolled" sequence.

**Episodes** - treatment episodes; length of episode is determined by days supplied in one dispensing or consecutive dispensings bridged by the episode gap.

**Episode Gap** - number of days allowed between two (or more) consecutive exposures (dispensings/procedures) to be considered the same treatment episode.

**Event Deduplication** - specifies how events are counted by the Modular Program (MP) algorithm: 0: Counts all occurrences of a health outcome of interest (HOI) during an exposure episode; 1: de-duplicates occurrences of the same HOI code and code type on the same day; 2: de-duplicates occurrences of the same HOI group on the same day (e.g., de-duplicates at the group level).

**Exposure Episode Length** - number of days after exposure initiation that is considered "exposed time."

**Exposure Extension Period** - number of days post treatment period in which the outcomes/events are counted for a treatment episode. Extensions are added after any episode gaps have been bridged.

**Lookback Period** - number of days wherein a member is required to have evidence of pre-existing condition (diagnosis/procedure/drug dispensing).

**Glossary of Terms for Analyses Using  
Cohort Identification and Descriptive Analysis (CIDA) Module\***

**Maximum Episode Duration** - truncates exposure episodes after a requester-specified number of exposed days. Applied after any gaps are bridged and extension days added to the length of the exposure episode.

**Member-Years** - sum of all days of enrollment with medical and drug coverage in the query period preceded by an exposure washout period all divided by 365.25.

**Minimum Days Supplied** - specifies a minimum number of days in length of the days supplied for the episode to be considered.

**Minimum Episode Duration** - specifies a minimum number of days in length of the episode for it to be considered. Applied after any gaps are bridged and extension days added to the length of the exposure episode.

**Monitoring Period** - used to define time periods of interest for both sequential analysis and simple cohort characterization requests.

**Principal Diagnosis (PDX)** - diagnosis or condition established to be chiefly responsible for admission of the patient to the hospital. 'P' = principal diagnosis, 'S' = secondary diagnosis, 'X' = unspecified diagnosis, '.' = blank. Along with the Care Setting values, forms the CareSetting/PDX parameter.

**Query Period** - period in which the modular program looks for exposures and outcomes of interest.

**Switch Evaluation Step Value** - value used to differentiate evaluation step. Each switch pattern can support up to 2 evaluation steps (0 = switch pattern evaluation start; 1 = first evaluation; 2 = second evaluation).

**Switch Gap Inclusion Indicator** - indicator for whether gaps in treatment episodes that are included in a switch episode will be counted as part of the switch episode duration.

**Switch Pattern Cohort Inclusion Date** - indicates which date to use for inclusion into the switch pattern cohort of interest as well as optionally as the index date of the treatment episode initiating the switch pattern. Valid options are the product approval date, product marketing date, other requester defined date, or computed start marketing date.

**Switch Pattern Cohort Inclusion Strategy** - indicates how the switch pattern cohort inclusion date will be used: 01: used only as a switch cohort entry date. First treatment episode dispensing date is used as index for computing time to first switch; 02: used as switch cohort entry date and as initial switch step index date for computing time to first switch.

**Treatment Episode Truncation Indicator** - indicates whether the exposure episode will be truncated at the occurrence of a requester-specified code.

**Washout Period (drug/exposure)** - number of days a user is required to have no evidence of prior exposure (drug dispensing/procedure) and continuous drug and medical coverage prior to an incident treatment episode.

**Washout Period (event/outcome)** - number of days a user is required to have no evidence of a prior event (procedure/diagnosis) and continuous drug and medical coverage prior to an incident treatment episode.

**Years at Risk** - number of days supplied plus any episode gaps and exposure extension periods all divided by 365.25.

\*all terms may not be used in this report

**Table 1a. Aggregated Baseline Table for Single-Dose Doxycycline (First Dispensing) for Age Groups 0-4, 5-9, 10-14, 15-19 and 0-7, 8-19 in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020**

| Patient Characteristics                                       | Number | Percent                         |
|---|--------|---------------------------------|
| Number of unique patients                                     | 7,347  | N/A                             |
| Number of unique patients with more than one valid dispensing | 0      | 0.0%                            |
| Capsule   | 3,930  | 53.5%                           |
| Suspension  | 47     | 0.6%                            |
| Tablet  | 2,662  | 36.2%                           |
| Syrup   | 725    | 9.9%                            |
| Dose: <100 mg per day   | 437    | 5.9%                            |
| Dose: =100 mg per day   | 1,207  | 16.4%                           |
| Dose: >100 - <200 mg per day                                  | 612    | 8.3%                            |
| Dose: =200 mg per day   | 5,091  | 69.3%                           |
| Demographic Characteristics                                   | Mean   | Standard Deviation <sup>1</sup> |
| Age (years)   | 13.0   | 4.5                             |
| Age   | Number | Percent                         |
| 0-4 years   | 379    | 5.2%                            |
| 5-9 years   | 1,635  | 22.3%                           |
| 10-14 years   | 2,569  | 35.0%                           |
| 15-19 years   | 2,764  | 37.6%                           |
| Age Alternate Stratifications                                 |        |                                 |
| 0-7 years   | 1,008  | 13.7%                           |
| 8-19 years  | 6,339  | 86.3%                           |
| Sex   |        |                                 |
| Female  | 3,152  | 42.9%                           |
| Male  | 4,195  | 57.1%                           |
| Race <sup>2</sup>   |        |                                 |
| American Indian or Alaska Native                              | *****  | *****                           |
| Asian   | 60     | 0.8%                            |
| Black or African American                                     | *****  | *****                           |
| Multi-racial  | 166    | 2.3%                            |
| Native Hawaiian or Other Pacific Islander                     | 0      | 0.0%                            |
| Unknown   | 5,297  | 72.1%                           |
| White   | 1,786  | 24.3%                           |
| Hispanic origin   |        |                                 |
| Yes   | 68     | 0.9%                            |
| No  | 1,306  | 17.8%                           |
| Unknown   | 5,973  | 81.3%                           |
| Race/Hispanic Ethnicity                                       |        |                                 |

**Table 1a. Aggregated Baseline Table for Single-Dose Doxycycline (First Dispensing) for Age Groups 0-4, 5-9, 10-14, 15-19 and 0-7, 8-19 in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020**

| Patient Characteristics   | Number | Percent            |
|---|--------|--------------------|
| Non-Hispanic American Indian or Alaska Native   | *****  | *****              |
| Non-Hispanic Asian  | 37     | 0.5%               |
| Non-Hispanic Black or African American  | *****  | *****              |
| Non-Hispanic Multi-racial   | 0      | 0.0%               |
| Non-Hispanic Native Hawaiian or Other Pacific Islander  | 0      | 0.0%               |
| Non-Hispanic White  | 1,236  | 16.8%              |
| Non-Hispanic Unknown  | *****  | *****              |
| Year  |        |                    |
| 2016  | 1,244  | 16.9%              |
| 2017  | 1,745  | 23.8%              |
| 2018  | 1,271  | 17.3%              |
| 2019  | 1,441  | 19.6%              |
| 2020  | 1,646  | 22.4%              |
| Urbanicity  |        |                    |
| Rural (population <2,500)   | 566    | 7.7%               |
| Suburban (population >= 2,500)  | 1,788  | 24.3%              |
| Urban (population >= 50,000)  | 4,993  | 68.0%              |
| Recorded History of   | Mean   | Standard Deviation |
| Pediatric comorbidity index <sup>3</sup>  | 0.9    | 1.8                |
| 7 Days Before and After, Including the Dispensing Date  | Number | Percent            |
| Arthropod encounter   | 3,591  | 48.9%              |
| Macroscopic examination for arthropod   | 80     | 1.1%               |
| Any tickborne disease (Lyme and other)  | 298    | 4.1%               |
| Lyme disease - all codes  | 291    | 4.00%              |
| Arthritis due to Lyme disease   | *****  | *****              |
| Lyme disease  | 0      | 0.0%               |
| Lyme disease unspecified  | 117    | 0.0%               |
| Meningitis due to Lyme disease  | 0      | 0.0%               |
| Other conditions associated with Lyme disease   | 14     | 0.0%               |
| Other neurologic disorders with Lyme disease  | 0      | 0.0%               |
| Antibody Borrelia burgdoferi Lyme disease confirmatory test   | 43     | 0.0%               |
| Antibody Borrelia burgdoferi Lyme disease   | 148    | 0.0%               |
| Infectious agent detection by nucleic acid DNA or RNA Borrelia burgdoferi direct probe technique    | 0      | 0.0%               |
| Infectious agent detection by nucleic acid DNA or RNA Borrelia burgdoferi amplified probe technique | 15     | 0.0%               |

**Table 1a. Aggregated Baseline Table for Single-Dose Doxycycline (First Dispensing) for Age Groups 0-4, 5-9, 10-14, 15-19 and 0-7, 8-19 in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020**

| Patient Characteristics   | Number | Percent |
|---|--------|---------|
| Infectious agent detection by nucleic acid DNA or RNA <i>Borrelia burgdoferi</i> quantification | 0      | 0.0%    |
| Other tickborne diseases  | *****  | 0.0%    |
| Babesiosis  | *****  | 0.0%    |
| Ehrlichiosis  | 0      | 0.0%    |
| Ehrlichiosis unspecified  | 0      | 0.0%    |
| Ehrlichiosis <i>chafeensis</i>  | 0      | 0.0%    |
| Other ehrlichiosis  | 0      | 0.0%    |
| Spotted fever due to <i>Rickettsia rickettsii</i>   | 0      | 0.0%    |
| Tick-borne relapsing fever  | *****  | 0.0%    |
| Far Eastern tick-borne encephalitis   | 0      | 0.0%    |
| Central European tick-borne encephalitis  | *****  | 0.0%    |
| Other tick-borne viral encephalitis   | 0      | 0.0%    |
| Tick-borne viral encephalitis unspecified   | *****  | 0.0%    |
| Tick-borne relapsing fever <i>orrelia</i> group antibody detection immunoblot IgM               | 0      | 0.0%    |
| Tick-borne relapsing fever <i>orrelia</i> group antibody detection immunoblot IgG               | 0      | 0.0%    |
| Any obstetric condition   | 80     | 0.0%    |
| Any dermatologic condition  | 112    | 0.0%    |
| Attention Deficit Hyperactivity Disorder  | 141    | 0.0%    |
| Alcohol Abuse or Dependence   | *****  | 0.0%    |
| Anemia  | *****  | 0.0%    |
| Anxiety or Panic Disorder   | 206    | 0.0%    |
| Any Malignancy  | *****  | 0.0%    |
| Asthma  | 84     | 0.0%    |
| Cardiovascular Conditions   | 21     | 0.0%    |
| Chromosomal Anomalies   | *****  | 0.0%    |
| Conduct Disorder  | 20     | 0.0%    |
| Congenital Malformations  | 44     | 0.0%    |
| Depression  | 133    | 0.0%    |
| Developmental Delays  | 47     | 0.0%    |
| Diabetes Mellitus   | 11     | 0.0%    |
| Drug Abuse or Dependence  | 21     | 0.0%    |
| Eating Disorders  | *****  | 0.0%    |
| Epilepsy or Convulsions   | *****  | 0.0%    |
| Gastrointestinal Conditions   | 48     | 0.0%    |

**Table 1a. Aggregated Baseline Table for Single-Dose Doxycycline (First Dispensing) for Age Groups 0-4, 5-9, 10-14, 15-19 and 0-7, 8-19 in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020**

| Patient Characteristics  | Number        | Percent        |
|--|---------------|----------------|
| Injuries   | 3,305         | 0.0%           |
| Joint Disorders  | 16            | 0.0%           |
| Menstrual Disorders  | 28            | 0.0%           |
| Migraine or Headache   | 27            | 0.0%           |
| Nausea and Vomiting  | 43            | 0.0%           |
| Obesity or Overweight  | 64            | 0.0%           |
| Obsessive-Compulsive Disorder  | 16            | 0.0%           |
| Pain Conditions  | 246           | 0.0%           |
| Pervasive Developmental Disorders  | 36            | 0.0%           |
| Psychotic Disorders  | 15            | 0.0%           |
| Rheumatologic Disorders  | *****         | 0.0%           |
| Sleep Disorders  | 17            | 0.0%           |
| Smoking  | 14            | 0.0%           |
| Specific Personality Disorder  | *****         | 0.0%           |
| Weight Loss  | *****         | 0.0%           |
| Inpatient encounter  | 18            | 0.0%           |
| Emergency department encounter   | 154           | 0.0%           |
| Ambulatory encounter   | 5,114         | 0.0%           |
| Other ambulatory encounter   | 395           | 0.0%           |
| Institutional stay encounter   | *****         | 0.0%           |
| No encounter   | 2,199         | 0.0%           |
| <b>30 Days Before and After, Including the Dispensing Date</b>                                   | <b>Number</b> | <b>Percent</b> |
| Arthropod encounter  | 3,650         | 49.7%          |
| Macroscopic examination for arthropod  | 84            | 1.1%           |
| Any tickborne disease (Lyme and other)   | 438           | 6.0%           |
| Lyme disease - all codes   | 432           | 5.9%           |
| Arthritis due to Lyme disease  | *****         | *****          |
| Lyme disease   | 0             | 0.0%           |
| Lyme disease unspecified   | 150           | 2.0%           |
| Meningitis due to Lyme disease   | 0             | 0.0%           |
| Other conditions associated with Lyme disease  | 16            | 0.2%           |
| Other neurologic disorders with Lyme disease   | *****         | *****          |
| Antibody Borrelia burgdoferi Lyme disease confirmatory test                                      | 76            | 1.0%           |
| Antibody Borrelia burgdoferi Lyme disease  | 268           | 3.6%           |
| Infectious agent detection by nucleic acid DNA or RNA Borrelia burgdoferi direct probe technique | 0             | 0.0%           |



**Table 1a. Aggregated Baseline Table for Single-Dose Doxycycline (First Dispensing) for Age Groups 0-4, 5-9, 10-14, 15-19 and 0-7, 8-19 in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020**

| Patient Characteristics  | Number | Percent |
|--|--------|---------|
| Infectious agent detection by nucleic acid DNA or RNA <i>Borrelia burgdoferi</i> amplified probe technique | 16     | 0.2%    |
| Infectious agent detection by nucleic acid DNA or RNA <i>Borrelia burgdoferi</i> quantification            | 0      | 0.0%    |
| Other tickborne diseases   | *****  | *****   |
| Babesiosis   | *****  | *****   |
| Ehrlichiosis   | 0      | 0.0%    |
| Ehrlichiosis unspecified   | 0      | 0.0%    |
| Ehrlichiosis <i>chafeensis</i>   | 0      | 0.0%    |
| Other ehrlichiosis   | 0      | 0.0%    |
| Spotted fever due to <i>Rickettsia rickettsii</i>  | *****  | *****   |
| Tick-borne relapsing fever   | *****  | *****   |
| Far Eastern tick-borne encephalitis  | 0      | 0.0%    |
| Central European tick-borne encephalitis   | *****  | *****   |
| Other tick-borne viral encephalitis  | 0      | 0.0%    |
| Tick-borne viral encephalitis unspecified  | *****  | *****   |
| Tick-borne relapsing fever <i>orrelia</i> group antibody detection immunoblot IgM                          | 0      | 0.0%    |
| Tick-borne relapsing fever <i>orrelia</i> group antibody detection immunoblot IgG                          | 0      | 0.0%    |
| Any obstetric condition thirty   | 94     | 1.3%    |
| Any dermatologic condition thirty  | 224    | 3.0%    |
| Attention Deficit Hyperactivity Disorder   | 294    | 4.0%    |
| Alcohol Abuse or Dependence  | 13     | 0.2%    |
| Anemia   | 13     | 0.2%    |
| Anxiety or Panic Disorder  | 424    | 5.8%    |
| Any Malignancy   | *****  | *****   |
| Asthma   | 190    | 2.6%    |
| Cardiovascular Conditions  | 57     | 0.8%    |
| Chromosomal Anomalies  | *****  | *****   |
| Conduct Disorder   | 37     | 0.5%    |
| Congenital Malformations   | 91     | 1.2%    |
| Depression   | 246    | 3.3%    |
| Developmental Delays   | 79     | 1.1%    |
| Diabetes Mellitus  | 23     | 0.3%    |
| Drug Abuse or Dependence   | 34     | 0.5%    |
| Eating Disorders   | 18     | 0.2%    |

**Table 1a. Aggregated Baseline Table for Single-Dose Doxycycline (First Dispensing) for Age Groups 0-4, 5-9, 10-14, 15-19 and 0-7, 8-19 in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020**

| Patient Characteristics           | Number | Percent |
|-----------------------------------|--------|---------|
| Epilepsy or Convulsions           | 26     | 0.4%    |
| Gastrointestinal Conditions       | 111    | 1.5%    |
| Injuries                          | 3,527  | 48.0%   |
| Joint Disorders                   | 39     | 0.5%    |
| Menstrual Disorders               | 66     | 0.9%    |
| Migraine or Headache              | 64     | 0.9%    |
| Nausea and Vomiting               | 92     | 1.3%    |
| Obesity or Overweight             | 127    | 1.7%    |
| Obsessive-Compulsive Disorder     | 40     | 0.5%    |
| Pain Conditions                   | 570    | 7.8%    |
| Pervasive Developmental Disorders | 64     | 0.9%    |
| Psychotic Disorders               | 34     | 0.5%    |
| Rheumatologic Disorders           | 16     | 0.2%    |
| Sleep Disorders                   | 40     | 0.5%    |
| Smoking                           | 20     | 0.3%    |
| Specific Personality Disorder     | *****  | *****   |
| Weight Loss                       | 26     | 0.4%    |
| Inpatient encounter               | 38     | 0.5%    |
| Emergency department encounter    | 322    | 4.4%    |
| Ambulatory encounter              | 5,987  | 81.5%   |
| Other ambulatory encounter        | 876    | 11.9%   |
| Institutional stay encounter      | *****  | *****   |
| No encounter                      | 0      | 0.0%    |

<sup>1</sup>Value represents standard deviation where no % follows the value.

<sup>2</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>3</sup>Sun, J. W., Bourgeois, F. T., Haneuse, S., Hernández-Díaz, S., Landon, J. E., Bateman, B. T., Huybrechts, K. F. Development and validation of a pediatric comorbidity index. American Journal of Epidemiology. 2020;190(5):918-927.

\*\*\*\*\*Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

N/A: Not Applicable

**Table 1b. Aggregated Baseline Table for Single-Dose Doxycycline (All Dispensings) for Age Groups 0-4, 5-9, 10-14, 15-19 and 0-7, 8-19 in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020**

| Patient Characteristics <sup>1</sup>                          | Number | Percent                         |
|---|--------|---------------------------------|
| Number of unique patients                                     | 7,347  | N/A                             |
| Number of dispensings   | 7,567  | 100.0%                          |
| Number of unique patients with more than one valid dispensing | 205    | 2.8%                            |
| Capsule   | 4,043  | 53.4%                           |
| Suspension  | 47     | 0.6%                            |
| Tablet  | 2,743  | 36.2%                           |
| Syrup   | 751    | 9.9%                            |
| Dose: <100 mg per day   | 451    | 6.1%                            |
| Dose: =100 mg per day   | 1,240  | 16.9%                           |
| Dose: >100 - <200 mg per day                                  | 630    | 8.6%                            |
| Dose: =200 mg per day   | 5,246  | 71.4%                           |
| Demographic Characteristics                                   | Mean   | Standard Deviation <sup>2</sup> |
| Age (years)   | 13.0   | 4.5                             |
| Age   | Number | Percent                         |
| 0-4 years   | 388    | 5.1%                            |
| 5-9 years   | 1,680  | 22.2%                           |
| 10-14 years   | 2,657  | 35.1%                           |
| 15-19 years   | 2,842  | 37.6%                           |
| Age Alternate Stratifications                                 |        |                                 |
| 0-7 years   | 1,037  | 13.7%                           |
| 8-19 years  | 6,530  | 86.3%                           |
| Sex   |        |                                 |
| Female  | 3,152  | 42.9%                           |
| Male  | 4,195  | 57.1%                           |
| Race <sup>3</sup>   |        |                                 |
| American Indian or Alaska Native                              | *****  | *****                           |
| Asian   | 60     | 0.8%                            |
| Black or African American                                     | *****  | *****                           |
| Multi-racial  | 166    | 2.3%                            |
| Native Hawaiian or Other Pacific Islander                     | 0      | 0.0%                            |
| Unknown   | 5,297  | 72.1%                           |
| White   | 1,786  | 24.3%                           |
| Hispanic origin   |        |                                 |
| Yes   | 68     | 0.9%                            |
| No  | 1,306  | 17.8%                           |
| Unknown   | 5,973  | 81.3%                           |
| Race/Hispanic Ethnicity                                       |        |                                 |

**Table 1b. Aggregated Baseline Table for Single-Dose Doxycycline (All Dispensings) for Age Groups 0-4, 5-9, 10-14, 15-19 and 0-7, 8-19 in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020**

| Patient Characteristics <sup>1</sup>  | Number | Percent            |
|---|--------|--------------------|
| Non-Hispanic American Indian or Alaska Native   | *****  | *****              |
| Non-Hispanic Asian  | 37     | 0.5%               |
| Non-Hispanic Black or African American  | *****  | *****              |
| Non-Hispanic Multi-racial   | 0      | 0.0%               |
| Non-Hispanic Native Hawaiian or Other Pacific Islander  | 0      | 0.0%               |
| Non-Hispanic White  | 1,236  | 16.8%              |
| Non-Hispanic Unknown  | *****  | *****              |
| Year  |        |                    |
| 2016  | 1,267  | 16.7%              |
| 2017  | 1,793  | 23.7%              |
| 2018  | 1,323  | 17.5%              |
| 2019  | 1,483  | 19.6%              |
| 2020  | 1,701  | 22.5%              |
| Urbanicity  |        |                    |
| Rural (population <2,500)   | 566    | 7.7%               |
| Suburban (population >= 2,500)  | 1,788  | 24.3%              |
| Urban (population >= 50,000)  | 4,993  | 68.0%              |
| Recorded History of   | Mean   | Standard Deviation |
| Pediatric comorbidity index <sup>4</sup>  | 0.9    | 1.8                |
| 7 Days Before and After, Including the Dispensing Date  | Number | Percent            |
| Arthropod encounter   | 3,655  | 48.3%              |
| Macroscopic examination for arthropod   | 84     | 1.1%               |
| Any tickborne disease (Lyme and other)  | 303    | 4.0%               |
| Lyme disease - all codes  | 295    | 3.9%               |
| Arthritis due to Lyme disease   | *****  | *****              |
| Lyme disease  | 0      | 0.0%               |
| Lyme disease unspecified  | 120    | 1.6%               |
| Meningitis due to Lyme disease  | 0      | 0.0%               |
| Other conditions associated with Lyme disease   | 14     | 0.2%               |
| Other neurologic disorders with Lyme disease  | 0      | 0.0%               |
| Antibody Borrelia burgdoferi Lyme disease confirmatory test   | 44     | 0.6%               |
| Antibody Borrelia burgdoferi Lyme disease   | 148    | 2.0%               |
| Infectious agent detection by nucleic acid DNA or RNA Borrelia burgdoferi direct probe technique    | 0      | 0.0%               |
| Infectious agent detection by nucleic acid DNA or RNA Borrelia burgdoferi amplified probe technique | 15     | 0.2%               |

**Table 1b. Aggregated Baseline Table for Single-Dose Doxycycline (All Dispensings) for Age Groups 0-4, 5-9, 10-14, 15-19 and 0-7, 8-19 in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020**

| Patient Characteristics <sup>1</sup>  | Number | Percent |
|---|--------|---------|
| Infectious agent detection by nucleic acid DNA or RNA <i>Borrelia burgdoferi</i> quantification | 0      | 0.0%    |
| Other tickborne diseases  | *****  | *****   |
| Babesiosis  | *****  | *****   |
| Ehrlichiosis  | 0      | 0.0%    |
| Ehrlichiosis unspecified  | 0      | 0.0%    |
| Ehrlichiosis chafeensis   | 0      | 0.0%    |
| Other ehrlichiosis  | 0      | 0.0%    |
| Spotted fever due to <i>Rickettsia rickettsii</i>   | 0      | 0.0%    |
| Tick-borne relapsing fever  | *****  | *****   |
| Far Eastern tick-borne encephalitis   | 0      | 0.0%    |
| Central European tick-borne encephalitis  | *****  | *****   |
| Other tick-borne viral encephalitis   | 0      | 0.0%    |
| Tick-borne viral encephalitis unspecified   | *****  | *****   |
| Tick-borne relapsing fever <i>orrelia</i> group antibody detection immunoblot IgM               | 0      | 0.0%    |
| Tick-borne relapsing fever <i>orrelia</i> group antibody detection immunoblot IgG               | 0      | 0.0%    |
| Any obstetric condition   | 85     | 1.1%    |
| Any dermatologic condition  | 115    | 1.5%    |
| Attention Deficit Hyperactivity Disorder  | 146    | 1.9%    |
| Alcohol Abuse or Dependence   | *****  | *****   |
| Anemia  | *****  | *****   |
| Anxiety or Panic Disorder   | 215    | 2.8%    |
| Any Malignancy  | *****  | *****   |
| Asthma  | 85     | 1.1%    |
| Cardiovascular Conditions   | 23     | 0.3%    |
| Chromosomal Anomalies   | *****  | *****   |
| Conduct Disorder  | 21     | 0.3%    |
| Congenital Malformations  | 45     | 0.6%    |
| Depression  | 139    | 1.8%    |
| Developmental Delays  | 49     | 0.6%    |
| Diabetes Mellitus   | 12     | 0.2%    |
| Drug Abuse or Dependence  | 21     | 0.3%    |
| Eating Disorders  | *****  | *****   |
| Epilepsy or Convulsions   | *****  | *****   |
| Gastrointestinal Conditions   | 49     | 0.6%    |

**Table 1b. Aggregated Baseline Table for Single-Dose Doxycycline (All Dispensings) for Age Groups 0-4, 5-9, 10-14, 15-19 and 0-7, 8-19 in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020**

| Patient Characteristics <sup>1</sup>   | Number        | Percent        |
|--|---------------|----------------|
| Injuries   | 3,369         | 44.5%          |
| Joint Disorders  | 16            | 0.2%           |
| Menstrual Disorders  | 28            | 0.4%           |
| Migraine or Headache   | 27            | 0.4%           |
| Nausea and Vomiting  | 43            | 0.6%           |
| Obesity or Overweight  | 66            | 0.9%           |
| Obsessive-Compulsive Disorder  | 17            | 0.2%           |
| Pain Conditions  | 254           | 3.4%           |
| Pervasive Developmental Disorders  | 36            | 0.5%           |
| Psychotic Disorders  | 15            | 0.2%           |
| Rheumatologic Disorders  | *****         | *****          |
| Sleep Disorders  | 17            | 0.2%           |
| Smoking  | 15            | 0.2%           |
| Specific Personality Disorder  | *****         | *****          |
| Weight Loss  | *****         | *****          |
| Inpatient encounter  | 18            | 0.2%           |
| Emergency department encounter   | 155           | 2.0%           |
| Ambulatory encounter   | 5,240         | 69.2%          |
| Other ambulatory encounter   | 407           | 5.4%           |
| Institutional stay encounter   | *****         | *****          |
| No encounter   | 2,293         | 30.3%          |
| <b>30 Days Before and After, Including the Dispensing Date</b>                                   | <b>Number</b> | <b>Percent</b> |
| Arthropod encounter thirty   | 3,724         | 49.2%          |
| Macroscopic examination for arthropod thirty   | 88            | 1.2%           |
| Any tickborne disease (lyme and other) thirty  | 454           | 6.0%           |
| Lyme disease - all codes thirty  | 448           | 5.9%           |
| Arthritis due to Lyme disease  | *****         | *****          |
| Lyme disease   | 0             | 0.00%          |
| Lyme disease unspecified   | 158           | 2.1%           |
| Meningitis due to Lyme disease   | 0             | 0.0%           |
| Other conditions associated with Lyme disease  | 16            | 0.2%           |
| Other neurologic disorders with Lyme disease   | *****         | *****          |
| Antibody Borrelia burgdoferi Lyme disease confirmatory test                                      | 79            | 1.0%           |
| Antibody Borrelia burgdoferi Lyme disease  | 275           | 3.6%           |
| Infectious agent detection by nucleic acid DNA or RNA Borrelia burgdoferi direct probe technique | 0             | 0.0%           |

**Table 1b. Aggregated Baseline Table for Single-Dose Doxycycline (All Dispensings) for Age Groups 0-4, 5-9, 10-14, 15-19 and 0-7, 8-19 in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020**

| Patient Characteristics <sup>1</sup>   | Number | Percent |
|--|--------|---------|
| Infectious agent detection by nucleic acid DNA or RNA <i>Borrelia burgdoferi</i> amplified probe technique | 16     | 0.2%    |
| Infectious agent detection by nucleic acid DNA or RNA <i>Borrelia burgdoferi</i> quantification            | 0      | 0.0%    |
| Other tickborne diseases thirty  | 11     | 0.1%    |
| Babesiosis   | *****  | *****   |
| Ehrlichiosis   | 0      | 0.0%    |
| Ehrlichiosis unspecified   | 0      | 0.0%    |
| Ehrlichiosis chafeensis  | 0      | 0.0%    |
| Other ehrlichiosis   | 0      | 0.0%    |
| Spotted fever due to <i>Rickettsia rickettsii</i>  | *****  | *****   |
| Tick-borne relapsing fever   | *****  | *****   |
| Far Eastern tick-borne encephalitis  | 0      | 0.0%    |
| Central European tick-borne encephalitis   | *****  | *****   |
| Other tick-borne viral encephalitis  | 0      | 0.0%    |
| Tick-borne viral encephalitis unspecified  | *****  | *****   |
| Tick-borne relapsing fever orrelia group antibody detection immunoblot IgM                                 | 0      | 0.0%    |
| Tick-borne relapsing fever orrelia group antibody detection immunoblot IgG                                 | 0      | 0.0%    |
| Any obstetric condition thirty   | 99     | 1.3%    |
| Any dermatologic condition thirty  | 228    | 3.0%    |
| Attention Deficit Hyperactivity Disorder   | 305    | 4.0%    |
| Alcohol Abuse or Dependence  | 13     | 0.2%    |
| Anemia   | 13     | 0.2%    |
| Anxiety or Panic Disorder  | 441    | 5.8%    |
| Any Malignancy   | 11     | 0.1%    |
| Asthma   | 194    | 2.6%    |
| Cardiovascular Conditions  | 59     | 0.8%    |
| Chromosomal Anomalies  | *****  | *****   |
| Conduct Disorder   | 39     | 0.5%    |
| Congenital Malformations   | 95     | 1.3%    |
| Depression   | 253    | 3.3%    |
| Developmental Delays   | 84     | 1.1%    |
| Diabetes Mellitus  | 24     | 0.3%    |
| Drug Abuse or Dependence   | 34     | 0.4%    |
| Eating Disorders   | 19     | 0.3%    |



**Table 1b. Aggregated Baseline Table for Single-Dose Doxycycline (All Dispensings) for Age Groups 0-4, 5-9, 10-14, 15-19 and 0-7, 8-19 in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020**

| Patient Characteristics <sup>1</sup>   | Number | Percent |
|--|--------|---------|
| Epilepsy or Convulsions                | 26     | 0.3%    |
| Gastrointestinal Conditions            | 115    | 1.5%    |
| Injuries                               | 3,609  | 47.7%   |
| Joint Disorders                        | 40     | 0.5%    |
| Menstrual Disorders                    | 67     | 0.9%    |
| Migraine or Headache                   | 66     | 0.9%    |
| Nausea and Vomiting                    | 94     | 1.2%    |
| Obesity or Overweight                  | 132    | 1.7%    |
| Obsessive-Compulsive Disorder          | 42     | 0.6%    |
| Pain Conditions                        | 590    | 7.8%    |
| Pervasive Developmental Disorders      | 65     | 0.9%    |
| Psychotic Disorders                    | 34     | 0.4%    |
| Rheumatologic Disorders                | 16     | 0.2%    |
| Sleep Disorders                        | 40     | 0.5%    |
| Smoking                                | 22     | 0.3%    |
| Specific Personality Disorder          | *****  | *****   |
| Weight Loss                            | 26     | 0.3%    |
| Inpatient encounter 30 days            | 38     | 0.5%    |
| Emergency department encounter 30 days | 328    | 4.3%    |
| Ambulatory encounter 30 days           | 6,154  | 81.3%   |
| Other ambulatory encounter 30 days     | 908    | 12.0%   |
| Institutional stay encounter 30 days   | *****  | *****   |
| No encounter 30 days                   | 0      | 0.0%    |

<sup>1</sup>All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

<sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>4</sup>Sun, J. W., Bourgeois, F. T., Haneuse, S., Hernández-Díaz, S., Landon, J. E., Bateman, B. T., Huybrechts, K. F. Development and validation of a pediatric comorbidity index. *American Journal of Epidemiology*. 2020;190(5):918-927.

\*\*\*\*\*Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

N/A: Not Applicable

**Table 1c. Aggregated Baseline Table for Single-Dose Doxycycline (No Obstetric or Dermatologic Conditions in the Surrounding 30 Days) for Age Groups 0-4, 5-9, 10-14, 15-19 and 0-7, 8-19 in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020**

| Patient Characteristics                                       | Number | Percent |
|---|--------|---------|
| Number of unique patients                                     | 7,034  | N/A     |
| Number of dispensings   | 7,241  | 100.0%  |
| Number of unique patients with more than one valid dispensing | 192    | 2.7%    |

N/A: Not Applicable

**Table 2. Summary of Single-Dose Dispensings of Doxycycline in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020**

|                         | New Users | New Dispensings | Number of Eligible Members <sup>1</sup> | Total Eligible Member-Years <sup>1</sup> | Number of Members with a Dispensing per 10,000 Eligible Members <sup>1</sup> | Average Number of Dispensings per Member | Number of Dispensings per 10,000 Eligible Member-Years <sup>1</sup> |
|-------------------------|-----------|-----------------|---|--|--|--|---|
| <i>First Dispensing</i> | 7,347     | 7,347           | 20,014,539                              | 36,900,468.2                             | 3.67   | 1.00                                     | 1.99  |
| <i>All Dispensings</i>  | 7,347     | 7,567           | 20,014,539                              | 36,911,410.6                             | 3.67   | 1.03                                     | 2.05  |

<sup>1</sup>Eligible Members and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period.

**Table 3. Summary of Single-Dose Dispensings of Doxycycline in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Year**

|                         | New Users | New Dispensings | Number of Eligible Members <sup>1</sup> | Total Eligible Member-Years <sup>1</sup> | Number of Members with a Dispensing per 10,000 Eligible Members <sup>1</sup> | Average Number of Dispensings per Member | Number of Dispensings per 10,000 Eligible Member-Years <sup>1</sup> |
|-------------------------|-----------|-----------------|---|--|--|--|---|
| <b>First Dispensing</b> |           |                 |   |  |  |  |   |
| 2016                    | 1,244     | 1,244           | 10,324,765                              | 7,771,041.5                              | 1.20   | 1.00                                     | 1.60  |
| 2017                    | 1,745     | 1,745           | 10,182,190                              | 7,684,094.3                              | 1.71   | 1.00                                     | 2.27  |
| 2018                    | 1,271     | 1,271           | 9,776,504                               | 7,403,547.3                              | 1.30   | 1.00                                     | 1.72  |
| 2019                    | 1,441     | 1,441           | 9,322,910                               | 7,115,166.4                              | 1.55   | 1.00                                     | 2.03  |
| 2020                    | 1,646     | 1,646           | 8,848,993                               | 6,926,618.7                              | 1.86   | 1.00                                     | 2.38  |
| <b>All Dispensings</b>  |           |                 |   |  |  |  |   |
| 2016                    | 1,244     | 1,267           | 10,324,765                              | 7,771,603.6                              | 1.20   | 1.02                                     | 1.63  |
| 2017                    | 1,767     | 1,793           | 10,183,208                              | 7,685,766.5                              | 1.74   | 1.01                                     | 2.33  |
| 2018                    | 1,301     | 1,323           | 9,778,634                               | 7,405,993.3                              | 1.33   | 1.02                                     | 1.79  |
| 2019                    | 1,468     | 1,483           | 9,325,443                               | 7,118,010.9                              | 1.57   | 1.01                                     | 2.08  |
| 2020                    | 1,682     | 1,701           | 8,852,020                               | 6,930,036.4                              | 1.90   | 1.01                                     | 2.45  |

<sup>1</sup>Eligible Members and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period.

**Table 4. Summary of Single-Dose Dispensings of Doxycycline in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Age Group and Year**

|  | New Users | New Dispensings | Number of Eligible Members <sup>1</sup> | Total Eligible Member-Years <sup>1</sup> | Number of Members with a Dispensing per 10,000 Eligible Members <sup>1</sup> | Average Number of Dispensings per Member | Number of Dispensings per 10,000 Eligible Member-Years <sup>1</sup> |
|--|-----------|-----------------|---|--|--|--|---|
| <b>First Dispensing for Age Groups 0-4 5-9 10-14 15-19</b> |           |                 |   |  |  |  |   |
| <i>0-4 years</i>   |           |                 |   |  |  |  |   |
| 2016   | 57        | 57              | 2,471,722                               | 1,625,130.8                              | 0.23   | 1.00                                     | 0.35  |
| 2017   | 62        | 62              | 2,435,973                               | 1,609,279.9                              | 0.25   | 1.00                                     | 0.39  |
| 2018   | 40        | 40              | 2,344,776                               | 1,552,660.1                              | 0.17   | 1.00                                     | 0.26  |
| 2019   | 97        | 97              | 2,237,167                               | 1,491,139.2                              | 0.43   | 1.00                                     | 0.65  |
| 2020   | 123       | 123             | 2,123,285                               | 1,454,290.4                              | 0.58   | 1.00                                     | 0.85  |
| <i>5-9 years</i>   |           |                 |   |  |  |  |   |
| 2016   | 248       | 248             | 2,766,531                               | 1,874,555.5                              | 0.90   | 1.00                                     | 1.32  |
| 2017   | 340       | 340             | 2,708,676                               | 1,834,901.6                              | 1.26   | 1.00                                     | 1.85  |
| 2018   | 237       | 237             | 2,584,531                               | 1,755,791.8                              | 0.92   | 1.00                                     | 1.35  |
| 2019   | 319       | 319             | 2,465,619                               | 1,687,931.9                              | 1.29   | 1.00                                     | 1.89  |
| 2020   | 491       | 491             | 2,354,390                               | 1,654,406.8                              | 2.09   | 1.00                                     | 2.97  |
| <i>10-14 years</i>   |           |                 |   |  |  |  |   |
| 2016   | 480       | 480             | 2,996,264                               | 2,058,994.6                              | 1.60   | 1.00                                     | 2.33  |
| 2017   | 639       | 639             | 2,970,180                               | 2,045,450.4                              | 2.15   | 1.00                                     | 3.12  |
| 2018   | 477       | 477             | 2,856,165                               | 1,975,088.6                              | 1.67   | 1.00                                     | 2.42  |
| 2019   | 500       | 500             | 2,720,419                               | 1,892,961.3                              | 1.84   | 1.00                                     | 2.64  |
| 2020   | 473       | 473             | 2,584,255                               | 1,837,392.5                              | 1.83   | 1.00                                     | 2.57  |
| <i>15-19 years</i>   |           |                 |   |  |  |  |   |
| 2016   | 459       | 459             | 3,261,949                               | 2,212,360.6                              | 1.41   | 1.00                                     | 2.07  |
| 2017   | 704       | 704             | 3,229,644                               | 2,194,462.4                              | 2.18   | 1.00                                     | 3.21  |
| 2018   | 517       | 517             | 3,114,217                               | 2,120,006.8                              | 1.66   | 1.00                                     | 2.44  |
| 2019   | 525       | 525             | 2,976,437                               | 2,043,134.1                              | 1.76   | 1.00                                     | 2.57  |
| 2020   | 559       | 559             | 2,828,912                               | 1,980,529.1                              | 1.98   | 1.00                                     | 2.82  |

**Table 4. Summary of Single-Dose Dispensings of Doxycycline in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Age Group and Year**

|   | New Users | New Dispensings | Number of Eligible Members <sup>1</sup> | Total Eligible Member-Years <sup>1</sup> | Number of Members with a Dispensing per 10,000 Eligible Members <sup>1</sup> | Average Number of Dispensings per Member | Number of Dispensings per 10,000 Eligible Member-Years <sup>1</sup> |
|---|-----------|-----------------|---|--|--|--|---|
| <b>All Dispensings for Age Groups 0-4 5-9 10-14 15-19</b> |           |                 |   |  |  |  |   |
| <i>0-4 years</i>  |           |                 |   |  |  |  |   |
| 2016  | 57        | 57              | 2,471,722                               | 1,625,154.1                              | 0.23   | 1.00                                     | 0.35  |
| 2017  | 62        | 64              | 2,436,011                               | 1,609,337.4                              | 0.25   | 1.03                                     | 0.40  |
| 2018  | 41        | 42              | 2,344,835                               | 1,552,719.0                              | 0.17   | 1.02                                     | 0.27  |
| 2019  | 97        | 98              | 2,237,218                               | 1,491,210.2                              | 0.43   | 1.01                                     | 0.66  |
| 2020  | 124       | 127             | 2,123,367                               | 1,454,402.0                              | 0.58   | 1.02                                     | 0.87  |
| <i>5-9 years</i>  |           |                 |   |  |  |  |   |
| 2016  | 248       | 253             | 2,766,539                               | 1,874,661.7                              | 0.90   | 1.02                                     | 1.35  |
| 2017  | 343       | 349             | 2,708,876                               | 1,835,177.7                              | 1.27   | 1.02                                     | 1.90  |
| 2018  | 246       | 248             | 2,584,884                               | 1,756,134.5                              | 0.95   | 1.01                                     | 1.41  |
| 2019  | 323       | 326             | 2,465,992                               | 1,688,321.1                              | 1.31   | 1.01                                     | 1.93  |
| 2020  | 496       | 504             | 2,354,851                               | 1,654,955.8                              | 2.11   | 1.02                                     | 3.05  |
| <i>10-14 years</i>  |           |                 |   |  |  |  |   |
| 2016  | 480       | 493             | 2,996,306                               | 2,059,220.1                              | 1.60   | 1.03                                     | 2.39  |
| 2017  | 652       | 656             | 2,970,732                               | 2,046,121.1                              | 2.19   | 1.01                                     | 3.21  |
| 2018  | 486       | 496             | 2,857,179                               | 1,976,088.1                              | 1.70   | 1.02                                     | 2.51  |
| 2019  | 512       | 518             | 2,721,638                               | 1,894,132.5                              | 1.88   | 1.01                                     | 2.73  |
| 2020  | 490       | 494             | 2,585,675                               | 1,838,722.2                              | 1.90   | 1.01                                     | 2.69  |
| <i>15-19 years</i>  |           |                 |   |  |  |  |   |
| 2016  | 459       | 464             | 3,261,977                               | 2,212,567.7                              | 1.41   | 1.01                                     | 2.10  |
| 2017  | 711       | 724             | 3,230,155                               | 2,195,130.3                              | 2.20   | 1.02                                     | 3.30  |
| 2018  | 528       | 537             | 3,115,305                               | 2,121,051.7                              | 1.69   | 1.02                                     | 2.53  |
| 2019  | 536       | 541             | 2,977,777                               | 2,044,347.2                              | 1.80   | 1.01                                     | 2.65  |
| 2020  | 572       | 576             | 2,830,490                               | 1,981,956.5                              | 2.02   | 1.01                                     | 2.91  |

**Table 4. Summary of Single-Dose Dispensings of Doxycycline in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Age Group and Year**

|   | New Users | New Dispensings | Number of Eligible Members <sup>1</sup> | Total Eligible Member-Years <sup>1</sup> | Number of Members with a Dispensing per 10,000 Eligible Members <sup>1</sup> | Average Number of Dispensings per Member | Number of Dispensings per 10,000 Eligible Member-Years <sup>1</sup> |
|---|-----------|-----------------|---|--|--|--|---|
| <b>First Dispensing for Age Groups 0-7 and 8-18</b> |           |                 |   |  |  |  |   |
| <i>0-7 years</i>                                    |           |                 |   |  |  |  |   |
| 2016  | 122       | 122             | 3,882,853                               | 2,711,536.1                              | 0.31   | 1.00                                     | 0.45  |
| 2017  | 159       | 159             | 3,812,315                               | 2,675,608.7                              | 0.42   | 1.00                                     | 0.59  |
| 2018  | 107       | 107             | 3,664,667                               | 2,581,898.0                              | 0.29   | 1.00                                     | 0.41  |
| 2019  | 240       | 240             | 3,500,584                               | 2,485,707.5                              | 0.69   | 1.00                                     | 0.97  |
| 2020  | 380       | 380             | 3,331,898                               | 2,432,839.4                              | 1.14   | 1.00                                     | 1.56  |
| <i>8-19 years</i>                                   |           |                 |   |  |  |  |   |
| 2016  | 1,122     | 1,122           | 6,823,783                               | 5,059,505.4                              | 1.64   | 1.00                                     | 2.22  |
| 2017  | 1,586     | 1,586           | 6,740,792                               | 5,008,485.6                              | 2.35   | 1.00                                     | 3.17  |
| 2018  | 1,164     | 1,164           | 6,465,176                               | 4,821,649.3                              | 1.80   | 1.00                                     | 2.41  |
| 2019  | 1,201     | 1,201           | 6,162,876                               | 4,629,458.9                              | 1.95   | 1.00                                     | 2.59  |
| 2020  | 1,266     | 1,266           | 5,849,510                               | 4,493,779.3                              | 2.16   | 1.00                                     | 2.82  |
| <b>All Dispensings for Age Groups 0-7 and 8-18</b>  |           |                 |   |  |  |  |   |
| <i>0-7 years</i>                                    |           |                 |   |  |  |  |   |
| 2016  | 122       | 124             | 3,882,853                               | 2,711,587.2                              | 0.31   | 1.02                                     | 0.46  |
| 2017  | 160       | 164             | 3,812,399                               | 2,675,736.1                              | 0.42   | 1.03                                     | 0.61  |
| 2018  | 112       | 114             | 3,664,821                               | 2,582,067.1                              | 0.31   | 1.02                                     | 0.44  |
| 2019  | 243       | 246             | 3,500,744                               | 2,485,931.6                              | 0.69   | 1.01                                     | 0.99  |
| 2020  | 381       | 389             | 3,332,146                               | 2,433,208.2                              | 1.14   | 1.02                                     | 1.60  |
| <i>8-19 years</i>                                   |           |                 |   |  |  |  |   |
| 2016  | 1,122     | 1,143           | 6,823,800                               | 5,060,016.3                              | 1.64   | 1.02                                     | 2.26  |
| 2017  | 1,607     | 1,629           | 6,741,772                               | 5,010,030.4                              | 2.38   | 1.01                                     | 3.25  |
| 2018  | 1,189     | 1,209           | 6,467,208                               | 4,823,926.1                              | 1.84   | 1.02                                     | 2.51  |



**Table 4. Summary of Single-Dose Dispensings of Doxycycline in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Age Group and Year**

|      | New Users | New Dispensings | Number of Eligible Members <sup>1</sup> | Total Eligible Member-Years <sup>1</sup> | Number of Members with a Dispensing per 10,000 Eligible Members <sup>1</sup> | Average Number of Dispensings per Member | Number of Dispensings per 10,000 Eligible Member-Years <sup>1</sup> |
|------|-----------|-----------------|---|--|--|--|---|
| 2019 | 1,225     | 1,237           | 6,165,326                               | 4,632,079.3                              | 1.99   | 1.01                                     | 2.67  |
| 2020 | 1,301     | 1,312           | 5,852,386                               | 4,496,828.2                              | 2.22   | 1.01                                     | 2.92  |

<sup>1</sup>Eligible Members and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period.

**Table 5. Summary of Single-Dose Dispensings of Doxycycline in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Year and Month**

|                         | New Users | New Dispensings | Number of Eligible Members <sup>1</sup> | Total Eligible Member-Years <sup>1</sup> | Number of Members with a Dispensing per 10,000 Eligible Members <sup>1</sup> | Average Number of Dispensings per Member | Number of Dispensings per 10,000 Eligible Member-Years <sup>1</sup> |
|-------------------------|-----------|-----------------|---|--|--|--|---|
| <b>First Dispensing</b> |           |                 |   |  |  |  |   |
| <i>2016</i>             |           |                 |   |  |  |  |   |
| January                 | 11        | 11              | 8,216,522                               | 592,135.8                                | 0.01   | 1.00                                     | 0.19  |
| February                | 18        | 18              | 8,001,441                               | 630,503.1                                | 0.02   | 1.00                                     | 0.29  |
| March                   | 107       | 107             | 8,258,762                               | 673,863.1                                | 0.13   | 1.00                                     | 1.59  |
| April                   | 171       | 171             | 7,998,039                               | 651,813.2                                | 0.21   | 1.00                                     | 2.62  |
| May                     | 212       | 212             | 8,252,507                               | 673,860.8                                | 0.26   | 1.00                                     | 3.15  |
| June                    | 218       | 218             | 7,931,463                               | 646,418.6                                | 0.27   | 1.00                                     | 3.37  |
| July                    | 119       | 119             | 8,234,419                               | 668,005.7                                | 0.14   | 1.00                                     | 1.78  |
| August                  | 63        | 63              | 8,238,102                               | 669,983.3                                | 0.08   | 1.00                                     | 0.94  |
| September               | 45        | 45              | 7,931,425                               | 645,951.0                                | 0.06   | 1.00                                     | 0.70  |
| October                 | 114       | 114             | 8,257,696                               | 671,102.6                                | 0.14   | 1.00                                     | 1.70  |
| November                | 143       | 143             | 7,988,679                               | 651,213.9                                | 0.18   | 1.00                                     | 2.20  |
| December                | 23        | 23              | 8,247,711                               | 596,190.5                                | 0.03   | 1.00                                     | 0.39  |
| <i>2017</i>             |           |                 |   |  |  |  |   |
| January                 | 25        | 25              | 8,223,242                               | 598,860.5                                | 0.03   | 1.00                                     | 0.42  |
| February                | 37        | 37              | 8,024,415                               | 610,649.6                                | 0.05   | 1.00                                     | 0.61  |
| March                   | 65        | 65              | 8,241,496                               | 673,771.0                                | 0.08   | 1.00                                     | 0.96  |
| April                   | 224       | 224             | 7,986,764                               | 650,853.4                                | 0.28   | 1.00                                     | 3.44  |
| May                     | 371       | 371             | 8,215,541                               | 671,694.2                                | 0.45   | 1.00                                     | 5.52  |
| June                    | 328       | 328             | 7,883,182                               | 642,291.1                                | 0.42   | 1.00                                     | 5.11  |
| July                    | 198       | 198             | 8,163,900                               | 664,161.9                                | 0.24   | 1.00                                     | 2.98  |
| August                  | 87        | 87              | 8,178,515                               | 657,096.3                                | 0.11   | 1.00                                     | 1.32  |
| September               | 48        | 48              | 7,779,406                               | 633,495.1                                | 0.06   | 1.00                                     | 0.76  |

**Table 5. Summary of Single-Dose Dispensings of Doxycycline in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Year and Month**

|             | New Users | New Dispensings | Number of Eligible Members <sup>1</sup> | Total Eligible Member-Years <sup>1</sup> | Number of Members with a Dispensing per 10,000 Eligible Members <sup>1</sup> | Average Number of Dispensings per Member | Number of Dispensings per 10,000 Eligible Member-Years <sup>1</sup> |
|-------------|-----------|-----------------|---|--|--|--|---|
| October     | 180       | 180             | 8,065,530                               | 657,735.8                                | 0.22   | 1.00                                     | 2.74  |
| November    | 150       | 150             | 7,811,617                               | 636,441.4                                | 0.19   | 1.00                                     | 2.36  |
| December    | 32        | 32              | 8,052,234                               | 587,043.9                                | 0.04   | 1.00                                     | 0.55  |
| <b>2018</b> |           |                 |   |  |  |  |   |
| January     | 16        | 16              | 7,894,639                               | 587,322.6                                | 0.02   | 1.00                                     | 0.27  |
| February    | 45        | 45              | 7,701,012                               | 585,917.5                                | 0.06   | 1.00                                     | 0.77  |
| March       | 42        | 42              | 7,893,090                               | 645,106.4                                | 0.05   | 1.00                                     | 0.65  |
| April       | 142       | 142             | 7,639,808                               | 622,370.4                                | 0.19   | 1.00                                     | 2.28  |
| May         | 349       | 349             | 7,858,797                               | 642,095.9                                | 0.44   | 1.00                                     | 5.44  |
| June        | 258       | 258             | 7,540,135                               | 614,193.2                                | 0.34   | 1.00                                     | 4.20  |
| July        | 137       | 137             | 7,814,512                               | 634,625.6                                | 0.18   | 1.00                                     | 2.16  |
| August      | 73        | 73              | 7,835,216                               | 635,514.0                                | 0.09   | 1.00                                     | 1.15  |
| September   | 48        | 48              | 7,540,041                               | 613,983.8                                | 0.06   | 1.00                                     | 0.78  |
| October     | 88        | 88              | 7,817,203                               | 637,277.3                                | 0.11   | 1.00                                     | 1.38  |
| November    | 54        | 54              | 7,570,409                               | 616,827.6                                | 0.07   | 1.00                                     | 0.88  |
| December    | 19        | 19              | 7,776,745                               | 568,313.0                                | 0.02   | 1.00                                     | 0.33  |
| <b>2019</b> |           |                 |   |  |  |  |   |
| January     | *****     | *****           | *****                                   | *****                                    | 0.02   | 1.00                                     | 0.28  |
| February    | *****     | *****           | *****                                   | *****                                    | 0.01   | 1.00                                     | 0.12  |
| March       | 40        | 40              | 7,593,117                               | 620,873.4                                | 0.05   | 1.00                                     | 0.64  |
| April       | 193       | 193             | 7,355,246                               | 599,242.5                                | 0.26   | 1.00                                     | 3.22  |
| May         | 327       | 327             | 7,558,133                               | 617,441.8                                | 0.43   | 1.00                                     | 5.30  |
| June        | 286       | 286             | 7,255,646                               | 591,016.7                                | 0.39   | 1.00                                     | 4.84  |
| July        | 176       | 176             | 7,498,094                               | 609,200.7                                | 0.23   | 1.00                                     | 2.89  |

**Table 5. Summary of Single-Dose Dispensings of Doxycycline in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Year and Month**

|                        | New Users | New Dispensings | Number of Eligible Members <sup>1</sup> | Total Eligible Member-Years <sup>1</sup> | Number of Members with a Dispensing per 10,000 Eligible Members <sup>1</sup> | Average Number of Dispensings per Member | Number of Dispensings per 10,000 Eligible Member-Years <sup>1</sup> |
|------------------------|-----------|-----------------|---|--|--|--|---|
| August                 | 88        | 88              | 7,490,717                               | 609,344.6                                | 0.12   | 1.00                                     | 1.44  |
| September              | 53        | 53              | 7,215,222                               | 587,449.2                                | 0.07   | 1.00                                     | 0.90  |
| October                | 150       | 150             | 7,470,552                               | 609,605.9                                | 0.20   | 1.00                                     | 2.46  |
| November               | 72        | 72              | 7,251,936                               | 590,990.1                                | 0.10   | 1.00                                     | 1.22  |
| December               | 33        | 33              | 7,428,084                               | 548,532.5                                | 0.04   | 1.00                                     | 0.60  |
| <b>2020</b>            |           |                 |   |  |  |  |   |
| January                | 34        | 34              | 7,411,460                               | 547,246.9                                | 0.05   | 1.00                                     | 0.62  |
| February               | 15        | 15              | 7,242,902                               | 570,616.1                                | 0.02   | 1.00                                     | 0.26  |
| March                  | 139       | 139             | 7,409,157                               | 606,863.1                                | 0.19   | 1.00                                     | 2.29  |
| April                  | 218       | 218             | 7,186,433                               | 585,840.6                                | 0.30   | 1.00                                     | 3.72  |
| May                    | 312       | 312             | 7,349,321                               | 605,178.6                                | 0.42   | 1.00                                     | 5.16  |
| June                   | 307       | 307             | 7,085,207                               | 577,770.6                                | 0.43   | 1.00                                     | 5.31  |
| July                   | 145       | 145             | 7,259,257                               | 593,483.2                                | 0.20   | 1.00                                     | 2.44  |
| August                 | 76        | 76              | 7,231,015                               | 588,330.6                                | 0.11   | 1.00                                     | 1.29  |
| September              | 52        | 52              | 6,952,529                               | 566,500.2                                | 0.07   | 1.00                                     | 0.92  |
| October                | 149       | 149             | 7,139,428                               | 585,830.4                                | 0.21   | 1.00                                     | 2.54  |
| November               | 156       | 156             | 6,951,047                               | 566,712.9                                | 0.22   | 1.00                                     | 2.75  |
| December               | 43        | 43              | 7,101,428                               | 532,245.5                                | 0.06   | 1.00                                     | 0.81  |
| <b>All Dispensings</b> |           |                 |   |  |  |  |   |
| <b>2016</b>            |           |                 |   |  |  |  |   |
| January                | 11        | 11              | 8,216,522                               | 592,136.4                                | 0.01   | 1.00                                     | 0.19  |
| February               | 18        | 18              | 8,001,451                               | 630,504.1                                | 0.02   | 1.00                                     | 0.29  |
| March                  | 107       | 107             | 8,258,790                               | 673,868.9                                | 0.13   | 1.00                                     | 1.59  |
| April                  | 171       | 172             | 7,998,172                               | 651,828.9                                | 0.21   | 1.01                                     | 2.64  |

**Table 5. Summary of Single-Dose Dispensings of Doxycycline in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Year and Month**

|             | New Users | New Dispensings | Number of Eligible Members <sup>1</sup> | Total Eligible Member-Years <sup>1</sup> | Number of Members with a Dispensing per 10,000 Eligible Members <sup>1</sup> | Average Number of Dispensings per Member | Number of Dispensings per 10,000 Eligible Member-Years <sup>1</sup> |
|-------------|-----------|-----------------|---|--|--|--|---|
| May         | 214       | 215             | 8,252,810                               | 673,892.7                                | 0.26   | 1.00                                     | 3.19  |
| June        | 222       | 223             | 7,931,963                               | 646,468.7                                | 0.28   | 1.00                                     | 3.45  |
| July        | 120       | 120             | 8,235,131                               | 668,069.5                                | 0.15   | 1.00                                     | 1.80  |
| August      | 65        | 67              | 8,238,919                               | 670,054.1                                | 0.08   | 1.03                                     | 1.00  |
| September   | 45        | 47              | 7,932,285                               | 646,022.5                                | 0.06   | 1.04                                     | 0.73  |
| October     | 117       | 117             | 8,258,595                               | 671,181.4                                | 0.14   | 1.00                                     | 1.74  |
| November    | 145       | 147             | 7,989,663                               | 651,300.2                                | 0.18   | 1.01                                     | 2.26  |
| December    | 23        | 23              | 8,248,821                               | 596,276.1                                | 0.03   | 1.00                                     | 0.39  |
| <b>2017</b> |           |                 |   |  |  |  |   |
| January     | 26        | 26              | 8,224,257                               | 598,945.7                                | 0.03   | 1.00                                     | 0.43  |
| February    | 37        | 37              | 8,025,422                               | 610,726.7                                | 0.05   | 1.00                                     | 0.61  |
| March       | 65        | 65              | 8,242,530                               | 673,859.2                                | 0.08   | 1.00                                     | 0.96  |
| April       | 229       | 229             | 7,987,833                               | 650,947.2                                | 0.29   | 1.00                                     | 3.52  |
| May         | 379       | 380             | 8,216,829                               | 671,814.2                                | 0.46   | 1.00                                     | 5.66  |
| June        | 335       | 337             | 7,884,772                               | 642,433.4                                | 0.42   | 1.01                                     | 5.25  |
| July        | 207       | 208             | 8,165,807                               | 664,330.1                                | 0.25   | 1.00                                     | 3.13  |
| August      | 88        | 88              | 8,180,588                               | 657,272.4                                | 0.11   | 1.00                                     | 1.34  |
| September   | 50        | 50              | 7,781,488                               | 633,666.4                                | 0.06   | 1.00                                     | 0.79  |
| October     | 181       | 182             | 8,067,641                               | 657,917.7                                | 0.22   | 1.01                                     | 2.77  |
| November    | 156       | 158             | 7,813,839                               | 636,630.1                                | 0.20   | 1.01                                     | 2.48  |
| December    | 33        | 33              | 8,054,587                               | 587,223.4                                | 0.04   | 1.00                                     | 0.56  |
| <b>2018</b> |           |                 |   |  |  |  |   |
| January     | 16        | 16              | 7,896,752                               | 587,499.1                                | 0.02   | 1.00                                     | 0.27  |
| February    | 45        | 47              | 7,703,075                               | 586,074.9                                | 0.06   | 1.04                                     | 0.80  |

**Table 5. Summary of Single-Dose Dispensings of Doxycycline in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Year and Month**

|             | New Users | New Dispensings | Number of Eligible Members <sup>1</sup> | Total Eligible Member-Years <sup>1</sup> | Number of Members with a Dispensing per 10,000 Eligible Members <sup>1</sup> | Average Number of Dispensings per Member | Number of Dispensings per 10,000 Eligible Member-Years <sup>1</sup> |
|-------------|-----------|-----------------|---|--|--|--|---|
| March       | 42        | 42              | 7,895,176                               | 645,281.7                                | 0.05   | 1.00                                     | 0.65  |
| April       | 145       | 146             | 7,641,884                               | 622,544.2                                | 0.19   | 1.01                                     | 2.35  |
| May         | 359       | 361             | 7,861,003                               | 642,291.8                                | 0.46   | 1.01                                     | 5.62  |
| June        | 272       | 273             | 7,542,585                               | 614,403.3                                | 0.36   | 1.00                                     | 4.44  |
| July        | 142       | 142             | 7,817,198                               | 634,855.1                                | 0.18   | 1.00                                     | 2.24  |
| August      | 78        | 81              | 7,837,990                               | 635,746.4                                | 0.10   | 1.04                                     | 1.27  |
| September   | 49        | 49              | 7,542,761                               | 614,207.4                                | 0.06   | 1.00                                     | 0.80  |
| October     | 90        | 91              | 7,819,942                               | 637,509.5                                | 0.12   | 1.01                                     | 1.43  |
| November    | 56        | 56              | 7,573,165                               | 617,055.0                                | 0.07   | 1.00                                     | 0.91  |
| December    | 19        | 19              | 7,779,538                               | 568,524.8                                | 0.02   | 1.00                                     | 0.33  |
| <b>2019</b> |           |                 |   |  |  |  |   |
| January     | *****     | *****           | *****                                   | *****                                    | 0.02   | 1.00                                     | 0.28  |
| February    | *****     | *****           | *****                                   | *****                                    | 0.01   | 1.00                                     | 0.12  |
| March       | 44        | 44              | 7,595,557                               | 621,077.8                                | 0.06   | 1.00                                     | 0.71  |
| April       | 196       | 198             | 7,357,663                               | 599,445.6                                | 0.27   | 1.01                                     | 3.30  |
| May         | 335       | 336             | 7,560,727                               | 617,669.8                                | 0.44   | 1.00                                     | 5.44  |
| June        | 290       | 292             | 7,258,456                               | 591,256.6                                | 0.40   | 1.01                                     | 4.94  |
| July        | 179       | 180             | 7,501,159                               | 609,463.5                                | 0.24   | 1.01                                     | 2.95  |
| August      | 88        | 89              | 7,493,893                               | 609,612.2                                | 0.12   | 1.01                                     | 1.46  |
| September   | 54        | 55              | 7,218,370                               | 587,707.9                                | 0.07   | 1.02                                     | 0.94  |
| October     | 158       | 158             | 7,473,725                               | 609,874.5                                | 0.21   | 1.00                                     | 2.59  |
| November    | 74        | 74              | 7,255,161                               | 591,256.3                                | 0.10   | 1.00                                     | 1.25  |
| December    | 34        | 34              | 7,431,371                               | 548,783.6                                | 0.05   | 1.00                                     | 0.62  |

**2020**

**Table 5. Summary of Single-Dose Dispensings of Doxycycline in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Year and Month**

|           | New Users | New Dispensings | Number of Eligible Members <sup>1</sup> | Total Eligible Member-Years <sup>1</sup> | Number of Members with a Dispensing per 10,000 Eligible Members <sup>1</sup> | Average Number of Dispensings per Member | Number of Dispensings per 10,000 Eligible Member-Years <sup>1</sup> |
|-----------|-----------|-----------------|---|--|--|--|---|
| January   | 35        | 35              | 7,414,454                               | 547,497.3                                | 0.05   | 1.00                                     | 0.64  |
| February  | 15        | 15              | 7,245,866                               | 570,850.0                                | 0.02   | 1.00                                     | 0.26  |
| March     | 146       | 146             | 7,412,103                               | 607,112.5                                | 0.20   | 1.00                                     | 2.40  |
| April     | 223       | 223             | 7,189,444                               | 586,093.1                                | 0.31   | 1.00                                     | 3.80  |
| May       | 320       | 322             | 7,352,516                               | 605,455.3                                | 0.44   | 1.01                                     | 5.32  |
| June      | 314       | 315             | 7,088,592                               | 578,058.8                                | 0.44   | 1.00                                     | 5.45  |
| July      | 148       | 149             | 7,262,921                               | 593,795.0                                | 0.20   | 1.01                                     | 2.51  |
| August    | 77        | 77              | 7,234,760                               | 588,644.3                                | 0.11   | 1.00                                     | 1.31  |
| September | 55        | 55              | 6,956,220                               | 566,803.7                                | 0.08   | 1.00                                     | 0.97  |
| October   | 153       | 155             | 7,143,154                               | 586,146.4                                | 0.21   | 1.01                                     | 2.64  |
| November  | 163       | 164             | 6,954,823                               | 567,025.9                                | 0.23   | 1.01                                     | 2.89  |
| December  | 44        | 45              | 7,105,340                               | 532,554.3                                | 0.06   | 1.02                                     | 0.84  |

<sup>1</sup>Eligible Members and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period.

\*\*\*\*Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.



**Table 6. Summary of Single-Dose Dispensings of Doxycycline in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Sex**

|                         | New Users | New Dispensings | Number of Eligible Members <sup>1</sup> | Total Eligible Member-Years <sup>1</sup> | Number of Members with a Dispensing per 10,000 Eligible Members <sup>1</sup> | Average Number of Dispensings per Member | Number of Dispensings per 10,000 Eligible Member-Years <sup>1</sup> |
|-------------------------|-----------|-----------------|---|--|--|--|---|
| <b>First Dispensing</b> |           |                 |   |  |  |  |   |
| Female                  | 3,152     | 3,152           | 9,802,749                               | 18,083,851.8                             | 3.22   | 1.00                                     | 1.74  |
| Male                    | 4,195     | 4,195           | 10,211,790                              | 18,816,616.4                             | 4.11   | 1.00                                     | 2.23  |
| <b>All Dispensings</b>  |           |                 |   |  |  |  |   |
| Female                  | 3,152     | 3,227           | 9,802,749                               | 18,088,443.0                             | 3.22   | 1.02                                     | 1.78  |
| Male                    | 4,195     | 4,340           | 10,211,790                              | 18,822,967.6                             | 4.11   | 1.03                                     | 2.31  |

<sup>1</sup>Eligible Members and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period.

**Table 7. Summary of Single-Dose Dispensings of Doxycycline in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Age Group**

|                         | New Users | New Dispensings | Number of Eligible Members <sup>1</sup> | Total Eligible Member-Years <sup>1</sup> | Number of Members with a Dispensing per 10,000 Eligible Members <sup>1</sup> | Average Number of Dispensings per Member | Number of Dispensings per 10,000 Eligible Member-Years <sup>1</sup> |
|-------------------------|-----------|-----------------|---|--|--|--|---|
| <b>First Dispensing</b> |           |                 |   |  |  |  |   |
| 0-4 years               | 379       | 379             | 5,691,604                               | 7,732,500.4                              | 0.67   | 1.00                                     | 0.49  |
| 5-9 years               | 1,635     | 1,635           | 6,174,683                               | 8,807,587.6                              | 2.65   | 1.00                                     | 1.86  |
| 10-14 years             | 2,569     | 2,569           | 6,648,346                               | 9,809,887.3                              | 3.86   | 1.00                                     | 2.62  |
| 15-19 years             | 2,764     | 2,764           | 7,331,780                               | 10,550,493.0                             | 3.77   | 1.00                                     | 2.62  |
| <b>All Dispensings</b>  |           |                 |   |  |  |  |   |
| 0-4 years               | 379       | 388             | 5,691,604                               | 7,732,822.7                              | 0.67   | 1.02                                     | 0.50  |
| 5-9 years               | 1,639     | 1,680           | 6,174,842                               | 8,809,250.7                              | 2.65   | 1.03                                     | 1.91  |
| 10-14 years             | 2,585     | 2,657           | 6,649,046                               | 9,814,283.9                              | 3.89   | 1.03                                     | 2.71  |
| 15-19 years             | 2,774     | 2,842           | 7,332,660                               | 10,555,053.3                             | 3.78   | 1.02                                     | 2.69  |

<sup>1</sup>Eligible Members and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period.

**Table 8. Summary of Single-Dose Dispensings of Doxycycline in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Hispanic Origin and Race<sup>1</sup>**

|   | New Users | New Dispensings | Number of Eligible Members <sup>2</sup> | Total Eligible Member-Years <sup>2</sup> | Number of Members with a Dispensing per 10,000 Eligible Members <sup>2</sup> | Average Number of Dispensings per Member | Number of Dispensings per 10,000 Eligible Member-Years <sup>2</sup> |
|---|-----------|-----------------|---|--|--|--|---|
| <b>First Dispensing</b>                   |           |                 |   |  |  |  |   |
| <i>Hispanic Origin</i>                    |           |                 |   |  |  |  |   |
| American Indian or Alaska Native          | 0         | 0               | 0                                       | 0.0                                      | NaN  | NaN                                      | NaN   |
| Asian                                     | 0         | 0               | 0                                       | 0.0                                      | NaN  | NaN                                      | NaN   |
| Black or African American                 | 0         | 0               | 0                                       | 0.0                                      | NaN  | NaN                                      | NaN   |
| Multi-racial                              | 21        | 21              | 61,538                                  | 126,919.8                                | 3.41   | 1.00                                     | 1.65  |
| Native Hawaiian or Other Pacific Islander | 0         | 0               | 0                                       | 0.0                                      | NaN  | NaN                                      | NaN   |
| Unknown                                   | *****     | *****           | *****                                   | *****                                    | 1.84   | 1.00                                     | 0.84  |
| White                                     | 0         | 0               | 0                                       | 0.0                                      | NaN  | NaN                                      | NaN   |
| <i>Not Hispanic Origin</i>                |           |                 |   |  |  |  |   |
| American Indian or Alaska Native          | *****     | *****           | *****                                   | *****                                    | 3.16   | 1.00                                     | 1.27  |
| Asian                                     | 37        | 37              | 192,710                                 | 472,744.0                                | 1.92   | 1.00                                     | 0.78  |
| Black or African American                 | *****     | *****           | *****                                   | *****                                    | 0.73   | 1.00                                     | 0.35  |
| Multi-racial                              | 0         | 0               | 0                                       | 0.0                                      | NaN  | NaN                                      | NaN   |
| Native Hawaiian or Other Pacific Islander | 0         | 0               | 999                                     | 1,664.4                                  | 0.00   | NaN                                      | 0.00  |
| Unknown                                   | *****     | *****           | *****                                   | *****                                    | 1.10   | 1.00                                     | 0.55  |
| White                                     | 1,236     | 1,236           | 2,142,892                               | 5,547,585.2                              | 5.77   | 1.00                                     | 2.23  |
| <i>Unknown - Hispanic Origin</i>          |           |                 |   |  |  |  |   |
| American Indian or Alaska Native          | *****     | *****           | *****                                   | *****                                    | 4.27   | 1.00                                     | 2.45  |
| Asian                                     | 23        | 23              | 111,501                                 | 234,865.2                                | 2.06   | 1.00                                     | 0.98  |
| Black or African American                 | *****     | *****           | *****                                   | *****                                    | 1.13   | 1.00                                     | 0.54  |
| Multi-racial                              | 145       | 145             | 194,060                                 | 446,082.5                                | 7.47   | 1.00                                     | 3.25  |
| Native Hawaiian or Other Pacific Islander | 0         | 0               | 1,618                                   | 3,434.1                                  | 0.00   | NaN                                      | 0.00  |
| Unknown                                   | *****     | *****           | *****                                   | *****                                    | 3.29   | 1.00                                     | 1.93  |
| White                                     | 550       | 550             | 641,300                                 | 1,367,249.3                              | 8.58   | 1.00                                     | 4.02  |
| <b>All Dispensings</b>                    |           |                 |   |  |  |  |   |
| <i>Hispanic Origin</i>                    |           |                 |   |  |  |  |   |
| American Indian or Alaska Native          | 0         | 0               | 0                                       | 0.0                                      | NaN  | NaN                                      | NaN   |
| Asian                                     | 0         | 0               | 0                                       | 0.0                                      | NaN  | NaN                                      | NaN   |
| Black or African American                 | 0         | 0               | 0                                       | 0.0                                      | NaN  | NaN                                      | NaN   |

**Table 8. Summary of Single-Dose Dispensings of Doxycycline in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Hispanic Origin and Race<sup>1</sup>**

|   | New Users | New Dispensings | Number of Eligible Members <sup>2</sup> | Total Eligible Member-Years <sup>2</sup> | Number of Members with a Dispensing per 10,000 Eligible Members <sup>2</sup> | Average Number of Dispensings per Member | Number of Dispensings per 10,000 Eligible Member-Years <sup>2</sup> |
|---|-----------|-----------------|---|--|--|--|---|
| Multi-racial                              | 21        | 21              | 61,538                                  | 126,956.0                                | 3.41   | 1.00                                     | 1.65  |
| Native Hawaiian or Other Pacific Islander | 0         | 0               | 0                                       | 0.0                                      | NaN  | NaN                                      | NaN   |
| Unknown                                   | *****     | *****           | *****                                   | *****                                    | 1.84   | 1.00                                     | 0.84  |
| White                                     | 0         | 0               | 0                                       | 0.0                                      | NaN  | NaN                                      | NaN   |
| <i>Not Hispanic Origin</i>                |           |                 |   |  |  |  |   |
| American Indian or Alaska Native          | *****     | *****           | *****                                   | *****                                    | 3.16   | 1.00                                     | 1.27  |
| Asian                                     | 37        | 37              | 192,710                                 | 472,805.5                                | 1.92   | 1.00                                     | 0.78  |
| Black or African American                 | *****     | *****           | *****                                   | *****                                    | 0.73   | 1.05                                     | 0.37  |
| Multi-racial                              | 0         | 0               | 0                                       | 0.0                                      | NaN  | NaN                                      | NaN   |
| Native Hawaiian or Other Pacific Islander | 0         | 0               | 999                                     | 1,664.4                                  | 0.00   | NaN                                      | 0.00  |
| Unknown                                   | *****     | *****           | *****                                   | *****                                    | 1.10   | 1.00                                     | 0.55  |
| White                                     | 1,236     | 1,285           | 2,142,892                               | 5,549,687.9                              | 5.77   | 1.04                                     | 2.32  |
| <i>Unknown - Hispanic Origin</i>          |           |                 |   |  |  |  |   |
| American Indian or Alaska Native          | *****     | *****           | *****                                   | *****                                    | 4.27   | 1.00                                     | 2.45  |
| Asian                                     | 23        | 24              | 111,501                                 | 234,906.9                                | 2.06   | 1.04                                     | 1.02  |
| Black or African American                 | *****     | *****           | *****                                   | *****                                    | 1.13   | 1.00                                     | 0.54  |
| Multi-racial                              | 145       | 146             | 194,060                                 | 446,295.3                                | 7.47   | 1.01                                     | 3.27  |
| Native Hawaiian or Other Pacific Islander | 0         | 0               | 1,618                                   | 3,434.1                                  | 0.00   | NaN                                      | 0.00  |
| Unknown                                   | *****     | *****           | *****                                   | *****                                    | 3.29   | 1.03                                     | 1.98  |
| White                                     | 550       | 569             | 641,300                                 | 1,368,086.3                              | 8.58   | 1.03                                     | 4.16  |

<sup>1</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>2</sup>Eligible Members and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period.

\*\*\*\*\*Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 9. Summary of Single-Dose Dispensings of Doxycycline in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Urbanicity**

|                                | New Users | New Dispensings | Number of Eligible Members <sup>1</sup> | Total Eligible Member-Years <sup>1</sup> | Number of Members with a Dispensing per 10,000 Eligible Members <sup>1</sup> | Average Number of Dispensings per Member | Number of Dispensings per 10,000 Eligible Member-Years <sup>1</sup> |
|--------------------------------|-----------|-----------------|---|--|--|--|---|
| <b>First Dispensing</b>        |           |                 |   |  |  |  |   |
| Rural (Population <2,500)      | 566       | 566             | 593,862                                 | 1,129,165.3                              | 9.53   | 1.00                                     | 5.01  |
| Suburban (Population >= 2,500) | 1,788     | 1,788           | 5,191,315                               | 9,689,151.3                              | 3.44   | 1.00                                     | 1.85  |
| Urban (Population >= 50,000)   | 4,993     | 4,993           | 14,229,362                              | 26,082,151.6                             | 3.51   | 1.00                                     | 1.91  |
| <b>All Dispensings</b>         |           |                 |   |  |  |  |   |
| Rural (Population <2,500)      | 566       | 592             | 593,862                                 | 1,130,137.6                              | 9.53   | 1.05                                     | 5.24  |
| Suburban (Population >= 2,500) | 1,788     | 1,843           | 5,191,315                               | 9,691,784.8                              | 3.44   | 1.03                                     | 1.90  |
| Urban (Population >= 50,000)   | 4,993     | 5,132           | 14,229,362                              | 26,089,488.3                             | 3.51   | 1.03                                     | 1.97  |

<sup>1</sup>Eligible Members and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period.

**Table 10. Summary of Single-Dose Dispensings of Doxycycline in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Incidence Category**

|                         | New Users | New Dispensings | Number of Eligible Members <sup>1</sup> | Total Eligible Member-Years <sup>1</sup> | Number of Members with a Dispensing per 10,000 Eligible Members <sup>1</sup> | Average Number of Dispensings per Member | Number of Dispensings per 10,000 Eligible Member-Years <sup>1</sup> |
|-------------------------|-----------|-----------------|---|--|--|--|---|
| <b>First Dispensing</b> |           |                 |   |  |  |  |   |
| Emerging                | 764       | 764             | 4,618,617                               | 8,771,791.1                              | 1.65   | 1.00                                     | 0.87  |
| Low                     | 825       | 825             | 10,641,028                              | 18,864,024.9                             | 0.78   | 1.00                                     | 0.44  |
| High                    | 5,758     | 5,758           | 4,754,894                               | 9,264,652.3                              | 12.11  | 1.00                                     | 6.22  |
| <b>All Dispensings</b>  |           |                 |   |  |  |  |   |
| Emerging                | 764       | 775             | 4,618,617                               | 8,772,844.4                              | 1.65   | 1.01                                     | 0.88  |
| Low                     | 825       | 833             | 10,641,028                              | 18,865,214.4                             | 0.78   | 1.01                                     | 0.44  |
| High                    | 5,758     | 5,959           | 4,754,894                               | 9,273,351.8                              | 12.11  | 1.03                                     | 6.43  |

<sup>1</sup>Eligible Members and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period.

**Table 11. Summary of Single-Dose Dispensings of Doxycycline in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by State**

| State                   | New Users | New Dispensings | Number of Eligible Members <sup>1</sup> | Total Eligible Member-Years <sup>1</sup> | Number of Members with a Dispensing per 10,000 Eligible Members <sup>1</sup> | Average Number of Dispensings per Member | Number of Dispensings per 10,000 Eligible Member-Years <sup>1</sup> |
|-------------------------|-----------|-----------------|---|--|--|--|---|
| <b>First Dispensing</b> |           |                 |   |  |  |  |   |
| AK                      | *****     | *****           | *****                                   | *****                                    | 1.08   | 1.00                                     | 0.58  |
| AL                      | *****     | *****           | *****                                   | *****                                    | 0.45   | 1.00                                     | 0.26  |
| AR                      | *****     | *****           | *****                                   | *****                                    | 0.41   | 1.00                                     | 0.24  |
| AZ                      | 14        | 14              | 546,906                                 | 887,161.6                                | 0.26   | 1.00                                     | 0.16  |
| CA                      | 326       | 326             | 2,139,581                               | 4,119,963.8                              | 1.52   | 1.00                                     | 0.79  |
| CO                      | 37        | 37              | 562,954                                 | 1,032,660.5                              | 0.66   | 1.00                                     | 0.36  |
| CT                      | 513       | 513             | 320,147                                 | 645,717.0                                | 16.02  | 1.00                                     | 7.94  |
| DC                      | *****     | *****           | *****                                   | *****                                    | 9.04   | 1.00                                     | 4.76  |
| DE                      | *****     | *****           | *****                                   | *****                                    | 2.30   | 1.00                                     | 1.24  |
| FL                      | 99        | 99              | 1,082,956                               | 1,839,734.4                              | 0.91   | 1.00                                     | 0.54  |
| GA                      | 88        | 88              | 1,192,708                               | 2,301,098.5                              | 0.74   | 1.00                                     | 0.38  |
| HI                      | 0         | 0               | *****                                   | *****                                    | 0.00   | NaN                                      | 0.00  |
| IA                      | 27        | 27              | 151,948                                 | 288,095.9                                | 1.78   | 1.00                                     | 0.94  |
| ID                      | *****     | *****           | *****                                   | *****                                    | 0.68   | 1.00                                     | 0.37  |
| IL                      | 96        | 96              | 625,226                                 | 1,111,822.6                              | 1.54   | 1.00                                     | 0.86  |
| IN                      | 119       | 119             | 755,972                                 | 1,560,239.4                              | 1.57   | 1.00                                     | 0.76  |
| KS                      | 17        | 17              | 178,150                                 | 308,254.6                                | 0.95   | 1.00                                     | 0.55  |
| KY                      | *****     | *****           | *****                                   | *****                                    | 1.56   | 1.00                                     | 0.76  |
| LA                      | *****     | *****           | *****                                   | *****                                    | 0.43   | 1.00                                     | 0.24  |
| MA                      | 466       | 466             | 213,644                                 | 387,071.4                                | 21.81  | 1.00                                     | 12.04   |
| MD                      | 210       | 210             | 310,387                                 | 624,571.5                                | 6.77   | 1.00                                     | 3.36  |
| ME                      | 697       | 697             | 141,433                                 | 306,024.8                                | 49.28  | 1.00                                     | 22.78   |
| MI                      | 60        | 60              | 297,727                                 | 529,395.4                                | 2.02   | 1.00                                     | 1.13  |
| MN                      | 96        | 96              | 320,676                                 | 641,435.8                                | 2.99   | 1.00                                     | 1.50  |

**Table 11. Summary of Single-Dose Dispensings of Doxycycline in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by State**

| State | New Users | New Dispensings | Number of Eligible Members <sup>1</sup> | Total Eligible Member-Years <sup>1</sup> | Number of Members with a Dispensing per 10,000 Eligible Members <sup>1</sup> | Average Number of Dispensings per Member | Number of Dispensings per 10,000 Eligible Member-Years <sup>1</sup> |
|-------|-----------|-----------------|---|--|--|--|---|
| MO    | 45        | 45              | 600,171                                 | 1,035,499.0                              | 0.75   | 1.00                                     | 0.43  |
| MS    | *****     | *****           | *****                                   | *****                                    | 0.26   | 1.00                                     | 0.14  |
| MT    | *****     | *****           | *****                                   | *****                                    | 0.95   | 1.00                                     | 0.53  |
| NC    | 65        | 65              | 526,652                                 | 976,272.9                                | 1.23   | 1.00                                     | 0.67  |
| ND    | *****     | *****           | *****                                   | *****                                    | 1.31   | 1.00                                     | 0.75  |
| NE    | *****     | *****           | *****                                   | *****                                    | 0.49   | 1.00                                     | 0.25  |
| NH    | 388       | 388             | 92,945                                  | 187,380.6                                | 41.75  | 1.00                                     | 20.71   |
| NJ    | 289       | 289             | 537,491                                 | 1,030,664.3                              | 5.38   | 1.00                                     | 2.80  |
| NM    | 0         | 0               | 47,011                                  | 80,055.6                                 | 0.00   | NaN                                      | 0.00  |
| NV    | *****     | *****           | *****                                   | *****                                    | 0.48   | 1.00                                     | 0.29  |
| NY    | 1,112     | 1,112           | 798,148                                 | 1,576,334.8                              | 13.93  | 1.00                                     | 7.05  |
| OH    | 179       | 179             | 1,161,761                               | 2,212,662.4                              | 1.54   | 1.00                                     | 0.81  |
| OK    | *****     | *****           | *****                                   | *****                                    | 0.35   | 1.00                                     | 0.21  |
| OR    | 11        | 11              | 126,435                                 | 231,128.9                                | 0.87   | 1.00                                     | 0.48  |
| PA    | 1,022     | 1,022           | 497,587                                 | 874,070.2                                | 20.54  | 1.00                                     | 11.69   |
| RI    | 80        | 80              | 39,774                                  | 77,643.1                                 | 20.11  | 1.00                                     | 10.30   |
| SC    | *****     | *****           | *****                                   | *****                                    | 1.34   | 1.00                                     | 0.76  |
| SD    | *****     | *****           | *****                                   | *****                                    | 0.38   | 1.00                                     | 0.19  |
| TN    | 31        | 31              | 324,133                                 | 526,058.5                                | 0.96   | 1.00                                     | 0.59  |
| TX    | 84        | 84              | 2,180,151                               | 3,546,030.5                              | 0.39   | 1.00                                     | 0.24  |
| UT    | *****     | *****           | *****                                   | *****                                    | 0.28   | 1.00                                     | 0.16  |
| VA    | 610       | 610             | 971,837                                 | 2,001,240.1                              | 6.28   | 1.00                                     | 3.05  |
| VT    | 47        | 47              | 8,981                                   | 15,736.2                                 | 52.33  | 1.00                                     | 29.87   |
| WA    | 16        | 16              | 285,724                                 | 512,209.7                                | 0.56   | 1.00                                     | 0.31  |
| WI    | 218       | 218             | 458,395                                 | 816,381.9                                | 4.76   | 1.00                                     | 2.67  |



**Table 11. Summary of Single-Dose Dispensings of Doxycycline in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by State**

| State                  | New Users | New Dispensings | Number of Eligible Members <sup>1</sup> | Total Eligible Member-Years <sup>1</sup> | Number of Members with a Dispensing per 10,000 Eligible Members <sup>1</sup> | Average Number of Dispensings per Member | Number of Dispensings per 10,000 Eligible Member-Years <sup>1</sup> |
|------------------------|-----------|-----------------|---|--|--|--|---|
| WV                     | 56        | 56              | 74,633                                  | 139,872.9                                | 7.50   | 1.00                                     | 4.00  |
| WY                     | *****     | *****           | *****                                   | *****                                    | 0.41   | 1.00                                     | 0.25  |
| <b>All Dispensings</b> |           |                 |   |  |  |  |   |
| AK                     | *****     | *****           | *****                                   | *****                                    | 1.08   | 1.00                                     | 0.58  |
| AL                     | *****     | *****           | *****                                   | *****                                    | 0.45   | 1.00                                     | 0.26  |
| AR                     | *****     | *****           | *****                                   | *****                                    | 0.41   | 1.00                                     | 0.24  |
| AZ                     | 14        | 14              | 546,906                                 | 887,181.6                                | 0.26   | 1.00                                     | 0.16  |
| CA                     | 326       | 329             | 2,139,581                               | 4,120,449.7                              | 1.52   | 1.01                                     | 0.80  |
| CO                     | 37        | 37              | 562,954                                 | 1,032,709.4                              | 0.66   | 1.00                                     | 0.36  |
| CT                     | 513       | 527             | 320,147                                 | 646,432.7                                | 16.02  | 1.03                                     | 8.15  |
| DC                     | *****     | *****           | *****                                   | *****                                    | 9.04   | 1.06                                     | 5.06  |
| DE                     | *****     | *****           | *****                                   | *****                                    | 2.30   | 1.00                                     | 1.24  |
| FL                     | 99        | 100             | 1,082,956                               | 1,839,873.7                              | 0.91   | 1.01                                     | 0.54  |
| GA                     | 88        | 88              | 1,192,708                               | 2,301,239.4                              | 0.74   | 1.00                                     | 0.38  |
| HI                     | 0         | 0               | *****                                   | *****                                    | 0.00   | NaN                                      | 0.00  |
| IA                     | 27        | 27              | 151,948                                 | 288,125.3                                | 1.78   | 1.00                                     | 0.94  |
| ID                     | *****     | *****           | *****                                   | *****                                    | 0.68   | 1.00                                     | 0.37  |
| IL                     | 96        | 97              | 625,226                                 | 1,111,939.8                              | 1.54   | 1.01                                     | 0.87  |
| IN                     | 119       | 120             | 755,972                                 | 1,560,424.6                              | 1.57   | 1.01                                     | 0.77  |
| KS                     | 17        | 17              | 178,150                                 | 308,276.0                                | 0.95   | 1.00                                     | 0.55  |
| KY                     | *****     | *****           | *****                                   | *****                                    | 1.56   | 1.02                                     | 0.77  |
| LA                     | *****     | *****           | *****                                   | *****                                    | 0.43   | 1.00                                     | 0.24  |
| MA                     | 466       | 493             | 213,644                                 | 387,771.9                                | 21.81  | 1.06                                     | 12.71   |
| MD                     | 210       | 215             | 310,387                                 | 624,880.2                                | 6.77   | 1.02                                     | 3.44  |
| ME                     | 697       | 728             | 141,433                                 | 307,276.5                                | 49.28  | 1.04                                     | 23.69   |

**Table 11. Summary of Single-Dose Dispensings of Doxycycline in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by State**

| State | New Users | New Dispensings | Number of Eligible Members <sup>1</sup> | Total Eligible Member-Years <sup>1</sup> | Number of Members with a Dispensing per 10,000 Eligible Members <sup>1</sup> | Average Number of Dispensings per Member | Number of Dispensings per 10,000 Eligible Member-Years <sup>1</sup> |
|-------|-----------|-----------------|---|--|--|--|---|
| MI    | 60        | 61              | 297,727                                 | 529,473.0                                | 2.02   | 1.02                                     | 1.15  |
| MN    | 96        | 98              | 320,676                                 | 641,605.0                                | 2.99   | 1.02                                     | 1.53  |
| MO    | 45        | 45              | 600,171                                 | 1,035,567.3                              | 0.75   | 1.00                                     | 0.43  |
| MS    | *****     | *****           | *****                                   | *****                                    | 0.26   | 1.33                                     | 0.19  |
| MT    | *****     | *****           | *****                                   | *****                                    | 0.95   | 1.00                                     | 0.53  |
| NC    | 65        | 65              | 526,652                                 | 976,363.8                                | 1.23   | 1.00                                     | 0.67  |
| ND    | *****     | *****           | *****                                   | *****                                    | 1.31   | 1.00                                     | 0.75  |
| NE    | *****     | *****           | *****                                   | *****                                    | 0.49   | 1.13                                     | 0.29  |
| NH    | 388       | 403             | 92,945                                  | 188,068.1                                | 41.75  | 1.04                                     | 21.43   |
| NJ    | 289       | 296             | 537,491                                 | 1,031,046.5                              | 5.38   | 1.02                                     | 2.87  |
| NM    | 0         | 0               | 47,011                                  | 80,055.6                                 | 0.00   | NaN                                      | 0.00  |
| NV    | *****     | *****           | *****                                   | *****                                    | 0.48   | 1.00                                     | 0.29  |
| NY    | 1,112     | 1,157           | 798,148                                 | 1,577,861.7                              | 13.93  | 1.04                                     | 7.33  |
| OH    | 179       | 182             | 1,161,761                               | 2,212,898.8                              | 1.54   | 1.02                                     | 0.82  |
| OK    | *****     | *****           | *****                                   | *****                                    | 0.35   | 1.00                                     | 0.21  |
| OR    | 11        | 11              | 126,435                                 | 231,143.7                                | 0.87   | 1.00                                     | 0.48  |
| PA    | 1,022     | 1,064           | 497,587                                 | 875,664.6                                | 20.54  | 1.04                                     | 12.15   |
| RI    | 80        | 81              | 39,774                                  | 77,732.2                                 | 20.11  | 1.01                                     | 10.42   |
| SC    | *****     | *****           | *****                                   | *****                                    | 1.34   | 1.00                                     | 0.76  |
| SD    | *****     | *****           | *****                                   | *****                                    | 0.38   | 1.00                                     | 0.19  |
| TN    | 31        | 32              | 324,133                                 | 526,103.3                                | 0.96   | 1.03                                     | 0.61  |
| TX    | 84        | 86              | 2,180,151                               | 3,546,138.6                              | 0.39   | 1.02                                     | 0.24  |
| UT    | *****     | *****           | *****                                   | *****                                    | 0.28   | 1.00                                     | 0.16  |
| VA    | 610       | 621             | 971,837                                 | 2,002,139.7                              | 6.28   | 1.02                                     | 3.10  |
| VT    | 47        | 47              | 8,981                                   | 15,810.2                                 | 52.33  | 1.00                                     | 29.73   |

**Table 11. Summary of Single-Dose Dispensings of Doxycycline in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by State**

| State | New Users | New Dispensings | Number of Eligible Members <sup>1</sup> | Total Eligible Member-Years <sup>1</sup> | Number of Members with a Dispensing per 10,000 Eligible Members <sup>1</sup> | Average Number of Dispensings per Member | Number of Dispensings per 10,000 Eligible Member-Years <sup>1</sup> |
|-------|-----------|-----------------|---|--|--|--|---|
| WA    | 16        | 16              | 285,724                                 | 512,243.7                                | 0.56   | 1.00                                     | 0.31  |
| WI    | 218       | 219             | 458,395                                 | 816,672.4                                | 4.76   | 1.00                                     | 2.68  |
| WV    | 56        | 56              | 74,633                                  | 139,951.7                                | 7.50   | 1.00                                     | 4.00  |
| WY    | *****     | *****           | *****                                   | *****                                    | 0.41   | 1.00                                     | 0.25  |

<sup>1</sup>Eligible Members and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period.

\*\*\*\*\*Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 12a. Summary of Ratios\* of Members with a Single-Dose Doxycycline Dispensing in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Incidence Category and State**

| State                                       | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|------|------|------|------|------|
| <b>All Dispensings</b>                      |      |      |      |      |      |
| <i>Emerging (n=770)</i>                     |      |      |      |      |      |
| All States with Emerging Incidence Category | .41  | .57  | .73  | .76  | .94  |
| DC  | 1.7  | 2.8  | 3.8  | 3.5  | 7    |
| IA  | .13  | .42  | .94  | .55  | 1.6  |
| IL  | .65  | .54  | .49  | .62  | .98  |
| IN  | .25  | .61  | .61  | .76  | .82  |
| KY  | 0.3  | .71  | .85  | .52  | .67  |
| MI  | .47  | .69  | 1    | .87  | 1.4  |
| NC  | .33  | .38  | .75  | .51  | .55  |
| ND  | .84  | NaN  | NaN  | NaN  | 1.9  |
| OH  | .38  | .55  | .65  | .83  | .82  |
| SD  | NaN  | NaN  | NaN  | .78  | NaN  |
| TN  | .53  | .34  | .47  | .28  | .53  |
| WV  | 1.3  | 1    | 2.4  | 5.3  | 5.3  |
| <i>High (n=5866)</i>                        |      |      |      |      |      |
| All States with High Incidence Category     | 3.9  | 5.9  | 4    | 4.9  | 6    |
| CT  | 3.9  | 8.5  | 5.3  | 6.2  | 7.8  |
| DE  | NaN  | .89  | .93  | .94  | 2.1  |
| MA  | 7    | 12   | 6.9  | 8.6  | 13   |
| MD  | 1.7  | 2.5  | 2.4  | 2.9  | 4.1  |
| ME  | 18   | 22   | 15   | 22   | 17   |
| MN  | 2    | 1    | .43  | 1.5  | 1.1  |
| NH  | 19   | 26   | 11   | 14   | 14   |
| NJ  | 1.6  | 2.4  | 2.1  | 2.1  | 3    |
| NY  | 3.1  | 5.4  | 5.2  | 5.9  | 9.5  |

**Table 12a. Summary of Ratios\* of Members with a Single-Dose Doxycycline Dispensing in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Incidence Category and State**

| State                                  | 2016 | 2017 | 2018 | 2019 | 2020 |
|--|------|------|------|------|------|
| PA                                     | 8.7  | 12   | 7.9  | 7.8  | 7.6  |
| RI                                     | 5.1  | 7.1  | 4.2  | 7.7  | 17   |
| VA                                     | 1.9  | 2.7  | 1.9  | 2.3  | 3.4  |
| VT                                     | 12   | 41   | 14   | 13   | 33   |
| WI                                     | 1.8  | 2.1  | 1.2  | 2.8  | 2.3  |
| <i>Low (n=826)</i>                     |      |      |      |      |      |
| All States with Low Incidence Category | .25  | .33  | .34  | .37  | .37  |
| AK                                     | .58  | NaN  | NaN  | 1    | 1.2  |
| AL                                     | NaN  | NaN  | .39  | .58  | NaN  |
| AR                                     | NaN  | .22  | NaN  | .22  | .44  |
| AZ                                     | .11  | .08  | .08  | .22  | .09  |
| CA                                     | .43  | .58  | .74  | .69  | .66  |
| CO                                     | .18  | .29  | .29  | 0.4  | .19  |
| FL                                     | .34  | .39  | .47  | .35  | .42  |
| GA                                     | .35  | .27  | .27  | .28  | .32  |
| HI                                     | NaN  | NaN  | NaN  | NaN  | NaN  |
| ID                                     | .56  | NaN  | .26  | NaN  | .59  |
| KS                                     | .22  | .82  | .35  | .51  | .14  |
| LA                                     | .27  | .19  | 0.2  | 0.1  | .12  |
| MO                                     | .24  | .42  | .29  | .53  | .15  |
| MS                                     | .18  | .18  | .18  | NaN  | .19  |
| MT                                     | NaN  | .99  | NaN  | NaN  | 1    |
| NE                                     | .13  | .37  | .23  | .24  | NaN  |
| NM                                     | NaN  | NaN  | NaN  | NaN  | NaN  |
| NV                                     | NaN  | .21  | 0.1  | .33  | .44  |
| OK                                     | .23  | .23  | NaN  | NaN  | .32  |

**Table 12a. Summary of Ratios\* of Members with a Single-Dose Doxycycline Dispensing in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Incidence Category and State**

| State                                       | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|------|------|------|------|------|
| OR  | NaN  | .67  | .32  | .48  | .33  |
| SC  | .36  | .56  | .34  | .46  | 1.2  |
| TX  | 0.1  | .13  | .16  | .23  | .27  |
| UT  | .07  | .14  | .07  | .16  | .18  |
| WA  | 0.3  | .34  | .07  | .21  | .25  |
| WY  | NaN  | NaN  | NaN  | NaN  | .94  |
| <b>First Dispensing</b>                     |      |      |      |      |      |
| <i>Emerging (n=764)</i>                     |      |      |      |      |      |
| All States with Emerging Incidence Category | .41  | .57  | .72  | .75  | .93  |
| DC  | 1.7  | 2.8  | 3.8  | 2.9  | 7    |
| IA  | .13  | .42  | .94  | .55  | 1.6  |
| IL  | .65  | .54  | .49  | .62  | .98  |
| IN  | .25  | .61  | .61  | .76  | .82  |
| KY  | 0.3  | .71  | .82  | .52  | .67  |
| MI  | .47  | .69  | 1    | .87  | 1.3  |
| NC  | .33  | .38  | .75  | .51  | .55  |
| ND  | .84  | NaN  | NaN  | NaN  | 1.9  |
| OH  | .38  | .55  | .63  | .81  | 0.8  |
| SD  | NaN  | NaN  | NaN  | .78  | NaN  |
| TN  | .53  | .34  | .47  | .28  | .53  |
| WV  | 1.3  | 1    | 2.4  | 5.3  | 5.3  |
| <i>High (n=5758)</i>                        |      |      |      |      |      |
| All States with High Incidence Category     | 3.9  | 5.8  | 3.9  | 4.8  | 5.9  |
| CT  | 3.9  | 8.3  | 5.2  | 6.1  | 7.8  |
| DE  | NaN  | .89  | .93  | .94  | 2.1  |
| MA  | 7    | 12   | 6.6  | 8.5  | 12   |

**Table 12a. Summary of Ratios\* of Members with a Single-Dose Doxycycline Dispensing in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Incidence Category and State**

| State                                  | 2016 | 2017 | 2018 | 2019 | 2020 |
|--|------|------|------|------|------|
| MD                                     | 1.7  | 2.5  | 2.4  | 2.8  | 3.9  |
| ME                                     | 18   | 22   | 15   | 21   | 16   |
| MN                                     | 2    | 1    | .43  | 1.5  | 1.1  |
| NH                                     | 19   | 25   | 11   | 13   | 14   |
| NJ                                     | 1.6  | 2.4  | 2.1  | 2.1  | 2.8  |
| NY                                     | 3.1  | 5.3  | 5.1  | 5.9  | 9.3  |
| PA                                     | 8.7  | 12   | 7.4  | 7.5  | 7.4  |
| RI                                     | 5.1  | 7.1  | 4.2  | 7.7  | 17   |
| VA                                     | 1.9  | 2.6  | 1.9  | 2.3  | 3.4  |
| VT                                     | 12   | 41   | 14   | 13   | 33   |
| WI                                     | 1.8  | 2.1  | 1.2  | 2.8  | 2.3  |
| <i>Low (n=825)</i>                     |      |      |      |      |      |
| All States with Low Incidence Category | .25  | .33  | .33  | .37  | .37  |
| AK                                     | .58  | NaN  | NaN  | 1    | 1.2  |
| AL                                     | NaN  | NaN  | .39  | .58  | NaN  |
| AR                                     | NaN  | .22  | NaN  | .22  | .44  |
| AZ                                     | .11  | .08  | .08  | .22  | .09  |
| CA                                     | .43  | .58  | .74  | .69  | .66  |
| CO                                     | .18  | .29  | .29  | 0.4  | .19  |
| FL                                     | .34  | .39  | .47  | .35  | .42  |
| GA                                     | .35  | .27  | .27  | .28  | .32  |
| HI                                     | NaN  | NaN  | NaN  | NaN  | NaN  |
| ID                                     | .56  | NaN  | .26  | NaN  | .59  |
| KS                                     | .22  | .82  | .35  | .51  | .14  |
| LA                                     | .27  | .19  | 0.2  | 0.1  | .12  |
| MO                                     | .24  | .42  | .29  | .53  | .15  |

**Table 12a. Summary of Ratios\* of Members with a Single-Dose Doxycycline Dispensing in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Incidence Category and State**

| State | 2016 | 2017 | 2018 | 2019 | 2020 |
|-------|------|------|------|------|------|
| MS    | .18  | .18  | NaN  | NaN  | .19  |
| MT    | NaN  | .99  | NaN  | NaN  | 1    |
| NE    | .13  | .37  | .23  | .24  | NaN  |
| NM    | NaN  | NaN  | NaN  | NaN  | NaN  |
| NV    | NaN  | .21  | 0.1  | .33  | .44  |
| OK    | .23  | .23  | NaN  | NaN  | .32  |
| OR    | NaN  | .67  | .32  | .48  | .33  |
| SC    | .36  | .56  | .34  | .46  | 1.2  |
| TX    | 0.1  | .13  | .16  | .23  | .27  |
| UT    | .07  | .14  | .07  | .16  | .18  |
| WA    | 0.3  | .34  | .07  | .21  | .25  |
| WY    | NaN  | NaN  | NaN  | NaN  | .94  |

\* This is defined as the number of members with a dispensing / eligible members

\*\*\*\*Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.



**Table 12b. Summary of Rates\* of Members with a Single-Dose Doxycycline Dispensing in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Incidence Category and State**

| State                                       | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|------|------|------|------|------|
| <b>All Dispensings</b>                      |      |      |      |      |      |
| <i>Emerging (n=770)</i>                     |      |      |      |      |      |
| All States with Emerging Incidence Category | .54  | .75  | .95  | .99  | 1.2  |
| DC  | 2.3  | 3.8  | 5.2  | 5.4  | 8.9  |
| IA  | .18  | .55  | 1.2  | .69  | 2    |
| IL  | .89  | .73  | .65  | .83  | 1.3  |
| IN  | .31  | 0.8  | .78  | .96  | 1    |
| KY  | .38  | .89  | 1.1  | .65  | .86  |
| MI  | .63  | .92  | 1.4  | 1.2  | 1.8  |
| NC  | .46  | .51  | .99  | .66  | 0.7  |
| ND  | 1.1  | 0    | 0    | 0    | 2.4  |
| OH  | .49  | .72  | .84  | 1.1  | 1    |
| SD  | 0    | 0    | 0    | .99  | 0    |
| TN  | .75  | .46  | .65  | .38  | .81  |
| WV  | 1.7  | 1.4  | 3.2  | 7.1  | 6.8  |
| <i>High (n=5866)</i>                        |      |      |      |      |      |
| All States with High Incidence Category     | 5.2  | 7.7  | 5.3  | 6.4  | 7.7  |
| CT  | 5.1  | 11   | 7.2  | 7.9  | 9.8  |
| DE  | 0    | 1.2  | 1.2  | 1.3  | 2.7  |
| MA  | 9.9  | 16   | 9.2  | 11   | 17   |
| MD  | 2.2  | 3.2  | 3.1  | 3.7  | 5.3  |
| ME  | 23   | 29   | 19   | 27   | 20   |
| MN  | 2.6  | 1.4  | .54  | 1.9  | 1.3  |
| NH  | 24   | 33   | 14   | 18   | 17   |
| NJ  | 2    | 3.1  | 2.8  | 2.9  | 3.7  |
| NY  | 4.2  | 7    | 6.8  | 7.7  | 12   |

**Table 12b. Summary of Rates\* of Members with a Single-Dose Doxycycline Dispensing in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Incidence Category and State**

| State                                  | 2016 | 2017 | 2018 | 2019 | 2020 |
|--|------|------|------|------|------|
| PA                                     | 12   | 17   | 11   | 10   | 10   |
| RI                                     | 6.5  | 9    | 6    | 10   | 21   |
| VA                                     | 2.4  | 3.5  | 2.5  | 3    | 4.3  |
| VT                                     | 16   | 53   | 18   | 17   | 43   |
| WI                                     | 2.5  | 2.7  | 1.5  | 3.7  | 3    |
| <i>Low (n=826)</i>                     |      |      |      |      |      |
| All States with Low Incidence Category | .34  | .45  | .46  | .49  | .47  |
| AK                                     | .74  | 0    | 0    | 1.4  | 1.5  |
| AL                                     | 0    | 0    | .53  | .79  | 0    |
| AR                                     | 0    | 0.3  | 0    | .29  | .57  |
| AZ                                     | .16  | .11  | .11  | .31  | .12  |
| CA                                     | .57  | .77  | .98  | .88  | .83  |
| CO                                     | .23  | .39  | .38  | .53  | .25  |
| FL                                     | .48  | .56  | .65  | .47  | .56  |
| GA                                     | .46  | .35  | .35  | .36  | 0.4  |
| HI                                     | 0    | 0    | 0    | 0    | 0    |
| ID                                     | .74  | 0    | .35  | 0    | .76  |
| KS                                     | 0.3  | 1.1  | .47  | .68  | .18  |
| LA                                     | .37  | .25  | .27  | .14  | .15  |
| MO                                     | .33  | .56  | 0.4  | .71  | .19  |
| MS                                     | .24  | .24  | .24  | 0    | .25  |
| MT                                     | 0    | 1.3  | 0    | 0    | 1.3  |
| NE                                     | .17  | .49  | .46  | .31  | 0    |
| NM                                     | 0    | 0    | 0    | 0    | 0    |
| NV                                     | 0    | .29  | .15  | .44  | .59  |
| OK                                     | .31  | .32  | 0    | 0    | .42  |

**Table 12b. Summary of Rates\* of Members with a Single-Dose Doxycycline Dispensing in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Incidence Category and State**

| State                                       | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|------|------|------|------|------|
| OR  | 0    | .89  | .43  | .64  | .43  |
| SC  | .48  | .76  | .45  | .63  | 1.5  |
| TX  | .14  | .19  | .24  | .32  | .35  |
| UT  | .09  | .19  | 0.1  | .22  | .24  |
| WA  | .41  | .49  | .09  | .28  | .33  |
| WY  | 0    | 0    | 0    | 0    | 1.2  |
| <b>First Dispensing</b>                     |      |      |      |      |      |
| <i>Emerging (n=764)</i>                     |      |      |      |      |      |
| All States with Emerging Incidence Category | .54  | .74  | .94  | .97  | 1.2  |
| DC  | 2.3  | 3.8  | 5.2  | 3.8  | 8.9  |
| IA  | .18  | .55  | 1.2  | .69  | 2    |
| IL  | .89  | .73  | .65  | .83  | 1.3  |
| IN  | .31  | .77  | .78  | .96  | 1    |
| KY  | .38  | .89  | 1    | .65  | .83  |
| MI  | .63  | .92  | 1.4  | 1.2  | 1.7  |
| NC  | .46  | .51  | .99  | .66  | 0.7  |
| ND  | 1.1  | 0    | 0    | 0    | 2.4  |
| OH  | .49  | .72  | .82  | 1.1  | 1    |
| SD  | 0    | 0    | 0    | .99  | 0    |
| TN  | .75  | .46  | .65  | .38  | .71  |
| WV  | 1.7  | 1.4  | 3.2  | 7.1  | 6.8  |
| <i>High (n=5758)</i>                        |      |      |      |      |      |
| All States with High Incidence Category     | 5.1  | 7.5  | 5    | 6.2  | 7.4  |
| CT  | 5.1  | 11   | 6.7  | 7.7  | 9.7  |
| DE  | 0    | 1.2  | 1.2  | 1.3  | 2.7  |
| MA  | 9.2  | 16   | 8.7  | 11   | 16   |

**Table 12b. Summary of Rates\* of Members with a Single-Dose Doxycycline Dispensing in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Incidence Category and State**

| State                                  | 2016 | 2017 | 2018 | 2019 | 2020 |
|--|------|------|------|------|------|
| MD                                     | 2.2  | 3.2  | 3.1  | 3.7  | 4.9  |
| ME                                     | 22   | 28   | 18   | 26   | 20   |
| MN                                     | 2.6  | 1.3  | .54  | 1.9  | 1.3  |
| NH                                     | 24   | 32   | 14   | 17   | 17   |
| NJ                                     | 2    | 3.1  | 2.7  | 2.8  | 3.6  |
| NY                                     | 4    | 6.7  | 6.5  | 7.5  | 12   |
| PA                                     | 12   | 16   | 10   | 10   | 9.6  |
| RI                                     | 6.5  | 9    | 5.4  | 10   | 21   |
| VA                                     | 2.4  | 3.4  | 2.4  | 3    | 4.2  |
| VT                                     | 16   | 53   | 18   | 17   | 43   |
| WI                                     | 2.5  | 2.7  | 1.6  | 3.7  | 3    |
| <i>Low (n=825)</i>                     |      |      |      |      |      |
| All States with Low Incidence Category | .34  | .44  | .45  | .49  | .47  |
| AK                                     | .74  | 0    | 0    | 1.4  | 1.5  |
| AL                                     | 0    | 0    | .53  | .79  | 0    |
| AR                                     | 0    | 0.3  | 0    | .29  | .57  |
| AZ                                     | .16  | .11  | .11  | .31  | .12  |
| CA                                     | .57  | .76  | .95  | .88  | .83  |
| CO                                     | .23  | .39  | .38  | .53  | .25  |
| FL                                     | .48  | .53  | .65  | .47  | .56  |
| GA                                     | .46  | .35  | .35  | .36  | 0.4  |
| HI                                     | 0    | 0    | 0    | 0    | 0    |
| ID                                     | .74  | 0    | .35  | 0    | .76  |
| KS                                     | 0.3  | 1.1  | .47  | .68  | .18  |
| LA                                     | .37  | .25  | .27  | .14  | .15  |
| MO                                     | .33  | .56  | 0.4  | .71  | .19  |

**Table 12b. Summary of Rates\* of Members with a Single-Dose Doxycycline Dispensing in the Sentinel Distributed Database (SDD) from January 1, 2016 to December 31, 2020, by Incidence Category and State**

| State | 2016 | 2017 | 2018 | 2019 | 2020 |
|-------|------|------|------|------|------|
| MS    | .24  | .24  | 0    | 0    | .25  |
| MT    | 0    | 1.3  | 0    | 0    | 1.3  |
| NE    | .17  | .49  | 0.3  | .31  | 0    |
| NM    | 0    | 0    | 0    | 0    | 0    |
| NV    | 0    | .29  | .15  | .44  | .59  |
| OK    | .31  | .32  | 0    | 0    | .42  |
| OR    | 0    | .89  | .43  | .64  | .43  |
| SC    | .48  | .76  | .45  | .63  | 1.5  |
| TX    | .14  | .18  | .23  | .32  | .35  |
| UT    | .09  | .19  | 0.1  | .22  | .24  |
| WA    | .41  | .49  | .09  | .28  | .33  |
| WY    | 0    | 0    | 0    | 0    | 1.2  |

\* This is defined as the number of members with a dispensing / person-time in all eligible members

\*\*\*\*Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

**Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (December 2, 2024)**

| Masked DP ID | DP Start Date | DP End Date <sup>1</sup> |
|--------------|---------------|--------------------------|
| DP01         | 01/01/2008    | 12/31/2023               |
| DP02         | 01/01/2006    | 02/29/2024               |
| DP03         | 01/01/2008    | 05/31/2024               |
| DP04         | 01/01/2007    | 02/29/2024               |

<sup>1</sup>End Date represents the earliest of: (1) query end date, or (2) last day of the most recent month for which all of a Data Partner's data tables (enrollment, dispensing, etc.) have at least 80% of the record count relative to the prior month.

**Appendix B. List of Generic and Brand Names of Medical Products Used to Define Exposures in this Request**

| Generic Name            | Brand Name              |
|-------------------------|-------------------------|
| <b>Doxycycline</b>      |                         |
| doxycycline calcium     | Vibramycin (calcium)    |
| doxycycline hyclate     | Acticlate               |
| doxycycline hyclate     | Morgidox                |
| doxycycline hyclate     | Targadox                |
| doxycycline hyclate     | Vibramycin              |
| doxycycline hyclate     | doxycycline hyclate     |
| doxycycline monohydrate | Adoxa                   |
| doxycycline monohydrate | Avidoxy                 |
| doxycycline monohydrate | Monodox                 |
| doxycycline monohydrate | Okebo                   |
| doxycycline monohydrate | Vibramycin (mono)       |
| doxycycline monohydrate | doxycycline monohydrate |

**Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Inclusion Criteria in this Request**

| Code   | Description   | Code Category | Code Type |
|--|---|---------------|-----------|
| <b>Obstetric and Dermatologic Conditions</b> |   |               |           |
| H10.82                                       | Rosacea conjunctivitis  | Diagnosis     | ICD-10-CM |
| H10.821                                      | Rosacea conjunctivitis, right eye   | Diagnosis     | ICD-10-CM |
| H10.822                                      | Rosacea conjunctivitis, left eye  | Diagnosis     | ICD-10-CM |
| H10.823                                      | Rosacea conjunctivitis, bilateral   | Diagnosis     | ICD-10-CM |
| H10.829                                      | Rosacea conjunctivitis, unspecified eye   | Diagnosis     | ICD-10-CM |
| L65.8  | Other specified nonscarring hair loss   | Diagnosis     | ICD-10-CM |
| L66.0  | Pseudopelade  | Diagnosis     | ICD-10-CM |
| L66.2  | Folliculitis decalvans  | Diagnosis     | ICD-10-CM |
| L66.8  | Other cicatricial alopecia  | Diagnosis     | ICD-10-CM |
| L70.0  | Acne vulgaris   | Diagnosis     | ICD-10-CM |
| L70.1  | Acne conglobata   | Diagnosis     | ICD-10-CM |
| L70.2  | Acne varioliformis  | Diagnosis     | ICD-10-CM |
| L70.3  | Acne tropica  | Diagnosis     | ICD-10-CM |
| L70.4  | Infantile acne  | Diagnosis     | ICD-10-CM |
| L70.5  | Acne excoriee   | Diagnosis     | ICD-10-CM |
| L70.8  | Other acne  | Diagnosis     | ICD-10-CM |
| L70.9  | Acne, unspecified   | Diagnosis     | ICD-10-CM |
| L71  | Rosacea   | Diagnosis     | ICD-10-CM |
| L71.0  | Perioral dermatitis   | Diagnosis     | ICD-10-CM |
| L71.1  | Rhinophyma  | Diagnosis     | ICD-10-CM |
| L71.8  | Other rosacea   | Diagnosis     | ICD-10-CM |
| L71.9  | Rosacea, unspecified  | Diagnosis     | ICD-10-CM |
| L73  | Other follicular disorders  | Diagnosis     | ICD-10-CM |
| L73.0  | Acne keloid   | Diagnosis     | ICD-10-CM |
| L73.1  | Pseudofolliculitis barbae   | Diagnosis     | ICD-10-CM |
| L73.2  | Hidradenitis suppurativa  | Diagnosis     | ICD-10-CM |
| L73.8  | Other specified follicular disorders  | Diagnosis     | ICD-10-CM |
| L73.9  | Follicular disorder, unspecified  | Diagnosis     | ICD-10-CM |
| N84  | Polyp of female genital tract   | Diagnosis     | ICD-10-CM |
| N84.0  | Polyp of corpus uteri   | Diagnosis     | ICD-10-CM |
| N84.1  | Polyp of cervix uteri   | Diagnosis     | ICD-10-CM |
| N84.8  | Polyp of other parts of female genital tract  | Diagnosis     | ICD-10-CM |
| N84.9  | Polyp of female genital tract, unspecified  | Diagnosis     | ICD-10-CM |
| N96  | Recurrent pregnancy loss  | Diagnosis     | ICD-10-CM |
| O02.1  | Missed abortion   | Diagnosis     | ICD-10-CM |
| O03  | Spontaneous abortion  | Diagnosis     | ICD-10-CM |
| O03.4  | Incomplete spontaneous abortion without complication  | Diagnosis     | ICD-10-CM |
| Z01.812                                      | Encounter for preprocedural laboratory examination  | Diagnosis     | ICD-10-CM |
| Z31.430                                      | Encounter of female for testing for genetic disease carrier status for procreative management | Diagnosis     | ICD-10-CM |
| Z31.83                                       | Encounter for assisted reproductive fertility procedure cycle                                 | Diagnosis     | ICD-10-CM |
| Z32.00                                       | Encounter for pregnancy test, result unknown  | Diagnosis     | ICD-10-CM |
| Z32.01                                       | Encounter for pregnancy test, result positive   | Diagnosis     | ICD-10-CM |



**Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Inclusion Criteria in this Request**

| Code    | Description   | Code Category | Code Type  |
|---------|---|---------------|------------|
| Z33.2   | Encounter for elective termination of pregnancy   | Diagnosis     | ICD-10-CM  |
| Z3A.01  | Less than 8 weeks gestation of pregnancy  | Diagnosis     | ICD-10-CM  |
| Z3A.08  | 8 weeks gestation of pregnancy  | Diagnosis     | ICD-10-CM  |
| 0058T   | Cryopreservation; reproductive tissue, ovarian  | Procedure     | CPT-3      |
| 0059T   | Cryopreservation; oocyte(s)   | Procedure     | CPT-3      |
| 00842   | Anesthesia for intraperitoneal procedures in lower abdomen including laparoscopy; amniocentesis   | Procedure     | CPT-4      |
| 00848   | Anesthesia for intraperitoneal procedures in lower abdomen including laparoscopy; pelvic exenteration   | Procedure     | CPT-4      |
| 00850   | Anesthesia for intraperitoneal procedures in lower abdomen including laparoscopy; cesarean section  | Procedure     | CPT-4      |
| 00851   | Anesthesia for intraperitoneal procedures in lower abdomen including laparoscopy; tubal ligation/transection  | Procedure     | CPT-4      |
| 00855   | Anesthesia for intraperitoneal procedures in lower abdomen including laparoscopy; cesarean hysterectomy   | Procedure     | CPT-4      |
| 00944   | Anesthesia for vaginal procedures (including biopsy of labia, vagina, cervix or endometrium); vaginal hysterectomy  | Procedure     | CPT-4      |
| 00952   | Anesthesia for vaginal procedures (including biopsy of labia, vagina, cervix or endometrium); hysteroscopy and/or hysterosalpingography                   | Procedure     | CPT-4      |
| 01900   | Anesthesia for injection procedure for hysterosalpingography  | Procedure     | CPT-4      |
| 01962   | Anesthesia for urgent hysterectomy following delivery   | Procedure     | CPT-4      |
| 01963   | Anesthesia for cesarean hysterectomy without any labor analgesia/anesthesia care  | Procedure     | CPT-4      |
| 01969   | Anesthesia for cesarean hysterectomy following neuraxial labor analgesia/anesthesia (List separately in addition to code for primary procedure performed) | Procedure     | CPT-4      |
| 0336T   | Laparoscopy, surgical, ablation of uterine fibroid(s), including intraoperative ultrasound guidance and monitoring, radiofrequency                        | Procedure     | CPT-3      |
| 0357T   | Cryopreservation; immature oocyte(s)  | Procedure     | CPT-3      |
| 0U9900Z | Drainage of Uterus with Drainage Device, Open Approach  | Procedure     | ICD-10-PCS |
| 0U990ZZ | Drainage of Uterus, Open Approach   | Procedure     | ICD-10-PCS |
| 0U9940Z | Drainage of Uterus with Drainage Device, Percutaneous Endoscopic Approach   | Procedure     | ICD-10-PCS |
| 0U994ZZ | Drainage of Uterus, Percutaneous Endoscopic Approach  | Procedure     | ICD-10-PCS |
| 0U9970Z | Drainage of Uterus with Drainage Device, Via Natural or Artificial Opening  | Procedure     | ICD-10-PCS |
| 0U997ZZ | Drainage of Uterus, Via Natural or Artificial Opening   | Procedure     | ICD-10-PCS |
| 0U9980Z | Drainage of Uterus with Drainage Device, Via Natural or Artificial Opening Endoscopic   | Procedure     | ICD-10-PCS |
| 0U998ZZ | Drainage of Uterus, Via Natural or Artificial Opening Endoscopic  | Procedure     | ICD-10-PCS |
| 0UC90ZZ | Extirpation of Matter from Uterus, Open Approach  | Procedure     | ICD-10-PCS |
| 0UC93ZZ | Extirpation of Matter from Uterus, Percutaneous Approach  | Procedure     | ICD-10-PCS |
| 0UC94ZZ | Extirpation of Matter from Uterus, Percutaneous Endoscopic Approach   | Procedure     | ICD-10-PCS |
| 0UJD0ZZ | Inspection of Uterus and Cervix, Open Approach  | Procedure     | ICD-10-PCS |
| 0UJD4ZZ | Inspection of Uterus and Cervix, Percutaneous Endoscopic Approach   | Procedure     | ICD-10-PCS |
| 0UJD8ZZ | Inspection of Uterus and Cervix, Via Natural or Artificial Opening Endoscopic   | Procedure     | ICD-10-PCS |

**Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Inclusion Criteria in this Request**

| Code    | Description   | Code Category | Code Type  |
|---------|---|---------------|------------|
| 0UPD00Z | Removal of Drainage Device from Uterus and Cervix, Open Approach                                    | Procedure     | ICD-10-PCS |
| 0UPD01Z | Removal of Radioactive Element from Uterus and Cervix, Open Approach                                | Procedure     | ICD-10-PCS |
| 0UPD03Z | Removal of Infusion Device from Uterus and Cervix, Open Approach                                    | Procedure     | ICD-10-PCS |
| 0UPD07Z | Removal of Autologous Tissue Substitute from Uterus and Cervix, Open Approach                       | Procedure     | ICD-10-PCS |
| 0UPD0DZ | Removal of Intraluminal Device from Uterus and Cervix, Open Approach                                | Procedure     | ICD-10-PCS |
| 0UPD0HZ | Removal of Contraceptive Device from Uterus and Cervix, Open Approach                               | Procedure     | ICD-10-PCS |
| 0UPD0JZ | Removal of Synthetic Substitute from Uterus and Cervix, Open Approach                               | Procedure     | ICD-10-PCS |
| 0UPD0KZ | Removal of Nonautologous Tissue Substitute from Uterus and Cervix, Open Approach                    | Procedure     | ICD-10-PCS |
| 0UPD0YZ | Removal of Other Device from Uterus and Cervix, Open Approach                                       | Procedure     | ICD-10-PCS |
| 0UPD30Z | Removal of Drainage Device from Uterus and Cervix, Percutaneous Approach                            | Procedure     | ICD-10-PCS |
| 0UPD31Z | Removal of Radioactive Element from Uterus and Cervix, Percutaneous Approach                        | Procedure     | ICD-10-PCS |
| 0UPD33Z | Removal of Infusion Device from Uterus and Cervix, Percutaneous Approach                            | Procedure     | ICD-10-PCS |
| 0UPD37Z | Removal of Autologous Tissue Substitute from Uterus and Cervix, Percutaneous Approach               | Procedure     | ICD-10-PCS |
| 0UPD3DZ | Removal of Intraluminal Device from Uterus and Cervix, Percutaneous Approach                        | Procedure     | ICD-10-PCS |
| 0UPD3HZ | Removal of Contraceptive Device from Uterus and Cervix, Percutaneous Approach                       | Procedure     | ICD-10-PCS |
| 0UPD3JZ | Removal of Synthetic Substitute from Uterus and Cervix, Percutaneous Approach                       | Procedure     | ICD-10-PCS |
| 0UPD3KZ | Removal of Nonautologous Tissue Substitute from Uterus and Cervix, Percutaneous Approach            | Procedure     | ICD-10-PCS |
| 0UPD3YZ | Removal of Other Device from Uterus and Cervix, Percutaneous Approach                               | Procedure     | ICD-10-PCS |
| 0UPD40Z | Removal of Drainage Device from Uterus and Cervix, Percutaneous Endoscopic Approach                 | Procedure     | ICD-10-PCS |
| 0UPD41Z | Removal of Radioactive Element from Uterus and Cervix, Percutaneous Endoscopic Approach             | Procedure     | ICD-10-PCS |
| 0UPD43Z | Removal of Infusion Device from Uterus and Cervix, Percutaneous Endoscopic Approach                 | Procedure     | ICD-10-PCS |
| 0UPD47Z | Removal of Autologous Tissue Substitute from Uterus and Cervix, Percutaneous Endoscopic Approach    | Procedure     | ICD-10-PCS |
| 0UPD4DZ | Removal of Intraluminal Device from Uterus and Cervix, Percutaneous Endoscopic Approach             | Procedure     | ICD-10-PCS |
| 0UPD4HZ | Removal of Contraceptive Device from Uterus and Cervix, Percutaneous Endoscopic Approach            | Procedure     | ICD-10-PCS |
| 0UPD4JZ | Removal of Synthetic Substitute from Uterus and Cervix, Percutaneous Endoscopic Approach            | Procedure     | ICD-10-PCS |
| 0UPD4KZ | Removal of Nonautologous Tissue Substitute from Uterus and Cervix, Percutaneous Endoscopic Approach | Procedure     | ICD-10-PCS |
| 0UPD4YZ | Removal of Other Device from Uterus and Cervix, Percutaneous Endoscopic Approach                    | Procedure     | ICD-10-PCS |

**Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Inclusion Criteria in this Request**

| Code    | Description   | Code Category | Code Type  |
|---------|---|---------------|------------|
| 0UPD71Z | Removal of Radioactive Element from Uterus and Cervix, Via Natural or Artificial Opening                        | Procedure     | ICD-10-PCS |
| 0UPD77Z | Removal of Autologous Tissue Substitute from Uterus and Cervix, Via Natural or Artificial Opening               | Procedure     | ICD-10-PCS |
| 0UPD7JZ | Removal of Synthetic Substitute from Uterus and Cervix, Via Natural or Artificial Opening                       | Procedure     | ICD-10-PCS |
| 0UPD7KZ | Removal of Nonautologous Tissue Substitute from Uterus and Cervix, Via Natural or Artificial Opening            | Procedure     | ICD-10-PCS |
| 0UPD81Z | Removal of Radioactive Element from Uterus and Cervix, Via Natural or Artificial Opening Endoscopic             | Procedure     | ICD-10-PCS |
| 0UPD87Z | Removal of Autologous Tissue Substitute from Uterus and Cervix, Via Natural or Artificial Opening Endoscopic    | Procedure     | ICD-10-PCS |
| 0UPD8JZ | Removal of Synthetic Substitute from Uterus and Cervix, Via Natural or Artificial Opening Endoscopic            | Procedure     | ICD-10-PCS |
| 0UPD8KZ | Removal of Nonautologous Tissue Substitute from Uterus and Cervix, Via Natural or Artificial Opening Endoscopic | Procedure     | ICD-10-PCS |
| OUT40ZZ | Resection of Uterine Supporting Structure, Open Approach  | Procedure     | ICD-10-PCS |
| OUT44ZZ | Resection of Uterine Supporting Structure, Percutaneous Endoscopic Approach                                     | Procedure     | ICD-10-PCS |
| OUT47ZZ | Resection of Uterine Supporting Structure, Via Natural or Artificial Opening                                    | Procedure     | ICD-10-PCS |
| OUT48ZZ | Resection of Uterine Supporting Structure, Via Natural or Artificial Opening Endoscopic                         | Procedure     | ICD-10-PCS |
| OUT90ZL | Resection of Uterus, Supracervical, Open Approach   | Procedure     | ICD-10-PCS |
| OUT90ZZ | Resection of Uterus, Open Approach  | Procedure     | ICD-10-PCS |
| OUT94ZL | Resection of Uterus, Supracervical, Percutaneous Endoscopic Approach  | Procedure     | ICD-10-PCS |
| OUT94ZZ | Resection of Uterus, Percutaneous Endoscopic Approach   | Procedure     | ICD-10-PCS |
| OUT97ZL | Resection of Uterus, Supracervical, Via Natural or Artificial Opening   | Procedure     | ICD-10-PCS |
| OUT97ZZ | Resection of Uterus, Via Natural or Artificial Opening  | Procedure     | ICD-10-PCS |
| OUT98ZL | Resection of Uterus, Supracervical, Via Natural or Artificial Opening Endoscopic                                | Procedure     | ICD-10-PCS |
| OUT98ZZ | Resection of Uterus, Via Natural or Artificial Opening Endoscopic   | Procedure     | ICD-10-PCS |
| OUT9FZL | Resection of Uterus, Supracervical, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance   | Procedure     | ICD-10-PCS |
| OUT9FZZ | Resection of Uterus, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance                  | Procedure     | ICD-10-PCS |
| OUTC0ZZ | Resection of Cervix, Open Approach  | Procedure     | ICD-10-PCS |
| OUTC4ZZ | Resection of Cervix, Percutaneous Endoscopic Approach   | Procedure     | ICD-10-PCS |
| OUTC7ZZ | Resection of Cervix, Via Natural or Artificial Opening  | Procedure     | ICD-10-PCS |
| OUTC8ZZ | Resection of Cervix, Via Natural or Artificial Opening Endoscopic   | Procedure     | ICD-10-PCS |
| OUWD00Z | Revision of Drainage Device in Uterus and Cervix, Open Approach   | Procedure     | ICD-10-PCS |
| OUWD01Z | Revision of Radioactive Element in Uterus and Cervix, Open Approach   | Procedure     | ICD-10-PCS |
| OUWD03Z | Revision of Infusion Device in Uterus and Cervix, Open Approach   | Procedure     | ICD-10-PCS |
| OUWD07Z | Revision of Autologous Tissue Substitute in Uterus and Cervix, Open Approach                                    | Procedure     | ICD-10-PCS |
| OUWD0DZ | Revision of Intraluminal Device in Uterus and Cervix, Open Approach   | Procedure     | ICD-10-PCS |
| OUWD0HZ | Revision of Contraceptive Device in Uterus and Cervix, Open Approach  | Procedure     | ICD-10-PCS |

**Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Inclusion Criteria in this Request**

| Code    | Description  | Code Category | Code Type  |
|---------|--|---------------|------------|
| 0UWD0JZ | Revision of Synthetic Substitute in Uterus and Cervix, Open Approach                               | Procedure     | ICD-10-PCS |
| 0UWD0KZ | Revision of Nonautologous Tissue Substitute in Uterus and Cervix, Open Approach                    | Procedure     | ICD-10-PCS |
| 0UWD0YZ | Revision of Other Device in Uterus and Cervix, Open Approach                                       | Procedure     | ICD-10-PCS |
| 0UWD30Z | Revision of Drainage Device in Uterus and Cervix, Percutaneous Approach                            | Procedure     | ICD-10-PCS |
| 0UWD31Z | Revision of Radioactive Element in Uterus and Cervix, Percutaneous Approach                        | Procedure     | ICD-10-PCS |
| 0UWD33Z | Revision of Infusion Device in Uterus and Cervix, Percutaneous Approach                            | Procedure     | ICD-10-PCS |
| 0UWD37Z | Revision of Autologous Tissue Substitute in Uterus and Cervix, Percutaneous Approach               | Procedure     | ICD-10-PCS |
| 0UWD3DZ | Revision of Intraluminal Device in Uterus and Cervix, Percutaneous Approach                        | Procedure     | ICD-10-PCS |
| 0UWD3HZ | Revision of Contraceptive Device in Uterus and Cervix, Percutaneous Approach                       | Procedure     | ICD-10-PCS |
| 0UWD3JZ | Revision of Synthetic Substitute in Uterus and Cervix, Percutaneous Approach                       | Procedure     | ICD-10-PCS |
| 0UWD3KZ | Revision of Nonautologous Tissue Substitute in Uterus and Cervix, Percutaneous Approach            | Procedure     | ICD-10-PCS |
| 0UWD3YZ | Revision of Other Device in Uterus and Cervix, Percutaneous Approach                               | Procedure     | ICD-10-PCS |
| 0UWD40Z | Revision of Drainage Device in Uterus and Cervix, Percutaneous Endoscopic Approach                 | Procedure     | ICD-10-PCS |
| 0UWD41Z | Revision of Radioactive Element in Uterus and Cervix, Percutaneous Endoscopic Approach             | Procedure     | ICD-10-PCS |
| 0UWD43Z | Revision of Infusion Device in Uterus and Cervix, Percutaneous Endoscopic Approach                 | Procedure     | ICD-10-PCS |
| 0UWD47Z | Revision of Autologous Tissue Substitute in Uterus and Cervix, Percutaneous Endoscopic Approach    | Procedure     | ICD-10-PCS |
| 0UWD4DZ | Revision of Intraluminal Device in Uterus and Cervix, Percutaneous Endoscopic Approach             | Procedure     | ICD-10-PCS |
| 0UWD4HZ | Revision of Contraceptive Device in Uterus and Cervix, Percutaneous Endoscopic Approach            | Procedure     | ICD-10-PCS |
| 0UWD4JZ | Revision of Synthetic Substitute in Uterus and Cervix, Percutaneous Endoscopic Approach            | Procedure     | ICD-10-PCS |
| 0UWD4KZ | Revision of Nonautologous Tissue Substitute in Uterus and Cervix, Percutaneous Endoscopic Approach | Procedure     | ICD-10-PCS |
| 0UWD4YZ | Revision of Other Device in Uterus and Cervix, Percutaneous Endoscopic Approach                    | Procedure     | ICD-10-PCS |
| 0UWD70Z | Revision of Drainage Device in Uterus and Cervix, Via Natural or Artificial Opening                | Procedure     | ICD-10-PCS |
| 0UWD71Z | Revision of Radioactive Element in Uterus and Cervix, Via Natural or Artificial Opening            | Procedure     | ICD-10-PCS |
| 0UWD73Z | Revision of Infusion Device in Uterus and Cervix, Via Natural or Artificial Opening                | Procedure     | ICD-10-PCS |
| 0UWD77Z | Revision of Autologous Tissue Substitute in Uterus and Cervix, Via Natural or Artificial Opening   | Procedure     | ICD-10-PCS |
| 0UWD7DZ | Revision of Intraluminal Device in Uterus and Cervix, Via Natural or Artificial Opening            | Procedure     | ICD-10-PCS |

**Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Inclusion Criteria in this Request**

| Code    | Description   | Code Category | Code Type  |
|---------|---|---------------|------------|
| 0UWD7HZ | Revision of Contraceptive Device in Uterus and Cervix, Via Natural or Artificial Opening  | Procedure     | ICD-10-PCS |
| 0UWD7JZ | Revision of Synthetic Substitute in Uterus and Cervix, Via Natural or Artificial Opening  | Procedure     | ICD-10-PCS |
| 0UWD7KZ | Revision of Nonautologous Tissue Substitute in Uterus and Cervix, Via Natural or Artificial Opening   | Procedure     | ICD-10-PCS |
| 0UWD7YZ | Revision of Other Device in Uterus and Cervix, Via Natural or Artificial Opening  | Procedure     | ICD-10-PCS |
| 0UWD80Z | Revision of Drainage Device in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic  | Procedure     | ICD-10-PCS |
| 0UWD81Z | Revision of Radioactive Element in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic  | Procedure     | ICD-10-PCS |
| 0UWD83Z | Revision of Infusion Device in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic  | Procedure     | ICD-10-PCS |
| 0UWD87Z | Revision of Autologous Tissue Substitute in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic   | Procedure     | ICD-10-PCS |
| 0UWD8DZ | Revision of Intraluminal Device in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic  | Procedure     | ICD-10-PCS |
| 0UWD8HZ | Revision of Contraceptive Device in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic   | Procedure     | ICD-10-PCS |
| 0UWD8JZ | Revision of Synthetic Substitute in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic   | Procedure     | ICD-10-PCS |
| 0UWD8KZ | Revision of Nonautologous Tissue Substitute in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic  | Procedure     | ICD-10-PCS |
| 0UWD8YZ | Revision of Other Device in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic   | Procedure     | ICD-10-PCS |
| 10A00ZZ | Abortion of Products of Conception, Open Approach   | Procedure     | ICD-10-PCS |
| 10A03ZZ | Abortion of Products of Conception, Percutaneous Approach   | Procedure     | ICD-10-PCS |
| 10A04ZZ | Abortion of Products of Conception, Percutaneous Endoscopic Approach  | Procedure     | ICD-10-PCS |
| 45126   | Pelvic exenteration for colorectal malignancy, with proctectomy (with or without colostomy), with removal of bladder and ureteral transplantations, and/or hysterectomy, or cervicectomy, with or without removal of tube(s), with or without removal of ovary(s), or any combination thereof | Procedure     | CPT-4      |
| 49220   | Staging laparotomy for Hodgkins disease or lymphoma (includes splenectomy, needle or open biopsies of both liver lobes, possibly also removal of abdominal nodes, abdominal node and/or bone marrow biopsies, ovarian repositioning)  | Procedure     | CPT-4      |
| 49322   | Laparoscopy, surgical; with aspiration of cavity or cyst (eg, ovarian cyst) (single or multiple)  | Procedure     | CPT-4      |
| 50722   | Ureterolysis for ovarian vein syndrome  | Procedure     | CPT-4      |
| 51597   | Pelvic exenteration, complete, for vesical, prostatic or urethral malignancy, with removal of bladder and ureteral transplantations, with or without hysterectomy and/or abdominoperineal resection of rectum and colon and colostomy, or any combination thereof                             | Procedure     | CPT-4      |
| 51925   | Closure of vesicouterine fistula; with hysterectomy   | Procedure     | CPT-4      |

**Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Inclusion Criteria in this Request**

| Code  | Description  | Code Category | Code Type |
|-------|--|---------------|-----------|
| 56350 | HYSTEROSCOPY DX (SEPART PROC)  | Procedure     | CPT-4     |
| 56351 | HYSTEROSCOPY SURG; W/SAMPL ENDOMETRIUM W/VO D&C  | Procedure     | CPT-4     |
| 56352 | HYSTEROSCOPY SURG; W/LYSIS INTRAUTERINE ADHESION   | Procedure     | CPT-4     |
| 56353 | HYSTEROSCOPY SURG; W/DIVIS/RESECT SEPTUM   | Procedure     | CPT-4     |
| 56354 | HYSTEROSCOPY SURG; W/REMOV LEIOMYOMATA   | Procedure     | CPT-4     |
| 56355 | HYSTEROSCOPY SURG; W/REMOV IMPACTED F B  | Procedure     | CPT-4     |
| 56356 | HYSTEROSCOPY SURG; W/ENDOMETRIAL ABLATION  | Procedure     | CPT-4     |
| 56399 | UNLISTED PROC-LAP/HYSTEROSCOPY   | Procedure     | CPT-4     |
| 57425 | Laparoscopy, surgical, colpopexy (suspension of vaginal apex)  | Procedure     | CPT-4     |
| 58150 | Total abdominal hysterectomy (corpus and cervix), with or without removal of tube(s), with or without removal of ovary(s);   | Procedure     | CPT-4     |
| 58152 | Total abdominal hysterectomy (corpus and cervix), with or without removal of tube(s), with or without removal of ovary(s); with colpo-urethrocystopexy (eg, Marshall-Marchetti-Krantz, Burch)  | Procedure     | CPT-4     |
| 58180 | Supracervical abdominal hysterectomy (subtotal hysterectomy), with or without removal of tube(s), with or without removal of ovary(s)  | Procedure     | CPT-4     |
| 58200 | Total abdominal hysterectomy, including partial vaginectomy, with para-aortic and pelvic lymph node sampling, with or without removal of tube(s), with or without removal of ovary(s)  | Procedure     | CPT-4     |
| 58205 | Total Hysterectomy, Extended, Corpus Cancer, Including Partial   | Procedure     | CPT-4     |
| 58210 | Radical abdominal hysterectomy, with bilateral total pelvic lymphadenectomy and para-aortic lymph node sampling (biopsy), with or without removal of tube(s), with or without removal of ovary(s)  | Procedure     | CPT-4     |
| 58240 | Pelvic exenteration for gynecologic malignancy, with total abdominal hysterectomy or cervicectomy, with or without removal of tube(s), with or without removal of ovary(s), with removal of bladder and ureteral transplantations, and/or abdominoperineal resection of rectum and colon and colostomy, or any combination thereof | Procedure     | CPT-4     |
| 58260 | Vaginal hysterectomy, for uterus 250 g or less;  | Procedure     | CPT-4     |
| 58262 | Vaginal hysterectomy, for uterus 250 g or less; with removal of tube(s), and/or ovary(s)   | Procedure     | CPT-4     |
| 58263 | Vaginal hysterectomy, for uterus 250 g or less; with removal of tube(s), and/or ovary(s), with repair of enterocele  | Procedure     | CPT-4     |
| 58265 | Vaginal Hysterectomy With Plastic Repair Of Vagina, Anterior   | Procedure     | CPT-4     |
| 58267 | Vaginal hysterectomy, for uterus 250 g or less; with colpo-urethrocystopexy (Marshall-Marchetti-Krantz type, Pereyra type) with or without endoscopic control  | Procedure     | CPT-4     |
| 58270 | Vaginal hysterectomy, for uterus 250 g or less; with repair of enterocele  | Procedure     | CPT-4     |
| 58275 | Vaginal hysterectomy, with total or partial vaginectomy;   | Procedure     | CPT-4     |
| 58280 | Vaginal hysterectomy, with total or partial vaginectomy; with repair of enterocele   | Procedure     | CPT-4     |
| 58285 | Vaginal hysterectomy, radical (Schauta type operation)   | Procedure     | CPT-4     |
| 58290 | Vaginal hysterectomy, for uterus greater than 250 g;   | Procedure     | CPT-4     |



**Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Inclusion Criteria in this Request**

| Code  | Description  | Code Category | Code Type |
|-------|--|---------------|-----------|
| 58291 | Vaginal hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s)   | Procedure     | CPT-4     |
| 58292 | Vaginal hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s), with repair of enterocele  | Procedure     | CPT-4     |
| 58293 | Vaginal hysterectomy, for uterus greater than 250 g; with colpo-urethrocystopexy (Marshall-Marchetti-Krantz type, Pereyra type) with or without endoscopic control                             | Procedure     | CPT-4     |
| 58294 | Vaginal hysterectomy, for uterus greater than 250 g; with repair of enterocele   | Procedure     | CPT-4     |
| 58321 | Artificial insemination; intra-cervical  | Procedure     | CPT-4     |
| 58322 | Artificial insemination; intra-uterine   | Procedure     | CPT-4     |
| 58340 | Catheterization and introduction of saline or contrast material for saline infusion sonohysterography (SIS) or hysterosalpingography   | Procedure     | CPT-4     |
| 58345 | Transcervical introduction of fallopian tube catheter for diagnosis and/or re-establishing patency (any method), with or without hysterosalpingography   | Procedure     | CPT-4     |
| 58350 | Chromotubation of oviduct, including materials   | Procedure     | CPT-4     |
| 58353 | Endometrial ablation, thermal, without hysteroscopic guidance  | Procedure     | CPT-4     |
| 58520 | Hysterorrhaphy, repair of ruptured uterus (nonobstetrical)   | Procedure     | CPT-4     |
| 58540 | Hysteroplasty, repair of uterine anomaly (Strassman type)  | Procedure     | CPT-4     |
| 58541 | Laparoscopy, surgical, supracervical hysterectomy, for uterus 250 g or less;   | Procedure     | CPT-4     |
| 58542 | Laparoscopy, surgical, supracervical hysterectomy, for uterus 250 g or less; with removal of tube(s) and/or ovary(s)   | Procedure     | CPT-4     |
| 58543 | Laparoscopy, surgical, supracervical hysterectomy, for uterus greater than 250 g;  | Procedure     | CPT-4     |
| 58544 | Laparoscopy, surgical, supracervical hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s)  | Procedure     | CPT-4     |
| 58545 | Laparoscopy, surgical, myomectomy, excision; 1 to 4 intramural myomas with total weight of 250 g or less and/or removal of surface myomas  | Procedure     | CPT-4     |
| 58546 | Laparoscopy, surgical, myomectomy, excision; 5 or more intramural myomas and/or intramural myomas with total weight greater than 250 g   | Procedure     | CPT-4     |
| 58548 | Laparoscopy, surgical, with radical hysterectomy, with bilateral total pelvic lymphadenectomy and para-aortic lymph node sampling (biopsy), with removal of tube(s) and ovary(s), if performed | Procedure     | CPT-4     |
| 58550 | Laparoscopy, surgical, with vaginal hysterectomy, for uterus 250 g or less;  | Procedure     | CPT-4     |
| 58551 | Laparoscopy, surgical; with removal of leiomyomata (single or multiple)  | Procedure     | CPT-4     |
| 58552 | Laparoscopy, surgical, with vaginal hysterectomy, for uterus 250 g or less; with removal of tube(s) and/or ovary(s)  | Procedure     | CPT-4     |
| 58553 | Laparoscopy, surgical, with vaginal hysterectomy, for uterus greater than 250 g;   | Procedure     | CPT-4     |
| 58554 | Laparoscopy, surgical, with vaginal hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s)   | Procedure     | CPT-4     |
| 58555 | Hysteroscopy, diagnostic (separate procedure)  | Procedure     | CPT-4     |
| 58558 | Hysteroscopy, surgical; with sampling (biopsy) of endometrium and/or polypectomy, with or without D & C  | Procedure     | CPT-4     |
| 58559 | Hysteroscopy, surgical; with lysis of intrauterine adhesions (any method)  | Procedure     | CPT-4     |

**Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Inclusion Criteria in this Request**

| Code  | Description   | Code Category | Code Type |
|-------|---|---------------|-----------|
| 58560 | Hysteroscopy, surgical; with division or resection of intrauterine septum (any method)  | Procedure     | CPT-4     |
| 58561 | Hysteroscopy, surgical; with removal of leiomyomata   | Procedure     | CPT-4     |
| 58562 | Hysteroscopy, surgical; with removal of impacted foreign body   | Procedure     | CPT-4     |
| 58563 | Hysteroscopy, surgical; with endometrial ablation (eg, endometrial resection, electrosurgical ablation, thermoablation)   | Procedure     | CPT-4     |
| 58565 | Hysteroscopy, surgical; with bilateral fallopian tube cannulation to induce occlusion by placement of permanent implants  | Procedure     | CPT-4     |
| 58570 | Laparoscopy, surgical, with total hysterectomy, for uterus 250 g or less;   | Procedure     | CPT-4     |
| 58571 | Laparoscopy, surgical, with total hysterectomy, for uterus 250 g or less; with removal of tube(s) and/or ovary(s)   | Procedure     | CPT-4     |
| 58572 | Laparoscopy, surgical, with total hysterectomy, for uterus greater than 250 g;  | Procedure     | CPT-4     |
| 58573 | Laparoscopy, surgical, with total hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s)  | Procedure     | CPT-4     |
| 58575 | Laparoscopy, surgical, total hysterectomy for resection of malignancy (tumor debulking), with omentectomy including salpingo-oophorectomy, unilateral or bilateral, when performed                        | Procedure     | CPT-4     |
| 58578 | Unlisted laparoscopy procedure, uterus  | Procedure     | CPT-4     |
| 58579 | Unlisted hysteroscopy procedure, uterus   | Procedure     | CPT-4     |
| 58600 | Ligation or transection of fallopian tube(s), abdominal or vaginal approach, unilateral or bilateral  | Procedure     | CPT-4     |
| 58605 | Ligation or transection of fallopian tube(s), abdominal or vaginal approach, postpartum, unilateral or bilateral, during same hospitalization (separate procedure)  | Procedure     | CPT-4     |
| 58611 | Ligation or transection of fallopian tube(s) when done at the time of cesarean delivery or intra-abdominal surgery (not a separate procedure) (List separately in addition to code for primary procedure) | Procedure     | CPT-4     |
| 58615 | Occlusion of fallopian tube(s) by device (eg, band, clip, Falope ring) vaginal or suprapubic approach   | Procedure     | CPT-4     |
| 58660 | Laparoscopy, surgical; with lysis of adhesions (salpingolysis, ovariolysis) (separate procedure)  | Procedure     | CPT-4     |
| 58661 | Laparoscopy, surgical; with removal of adnexal structures (partial or total oophorectomy and/or salpingectomy)  | Procedure     | CPT-4     |
| 58662 | Laparoscopy, surgical; with fulguration or excision of lesions of the ovary, pelvic viscera, or peritoneal surface by any method  | Procedure     | CPT-4     |
| 58670 | Laparoscopy, surgical; with fulguration of oviducts (with or without transection)   | Procedure     | CPT-4     |
| 58671 | Laparoscopy, surgical; with occlusion of oviducts by device (eg, band, clip, or Falope ring)  | Procedure     | CPT-4     |
| 58672 | Laparoscopy, surgical; with fimbrioplasty   | Procedure     | CPT-4     |
| 58673 | Laparoscopy, surgical; with salpingostomy (salpingoneostomy)  | Procedure     | CPT-4     |
| 58674 | Laparoscopy, surgical, ablation of uterine fibroid(s) including intraoperative ultrasound guidance and monitoring, radiofrequency   | Procedure     | CPT-4     |
| 58679 | Unlisted laparoscopy procedure, oviduct, ovary  | Procedure     | CPT-4     |



**Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Inclusion Criteria in this Request**

| Code  | Description   | Code Category | Code Type |
|-------|---|---------------|-----------|
| 58700 | Salpingectomy, complete or partial, unilateral or bilateral (separate procedure)  | Procedure     | CPT-4     |
| 58720 | Salpingo-oophorectomy, complete or partial, unilateral or bilateral (separate procedure)  | Procedure     | CPT-4     |
| 58740 | Lysis of adhesions (salpingolysis, ovariolysis)   | Procedure     | CPT-4     |
| 58750 | Tubotubal anastomosis   | Procedure     | CPT-4     |
| 58752 | Tubouterine implantation  | Procedure     | CPT-4     |
| 58760 | Fimbrioplasty   | Procedure     | CPT-4     |
| 58770 | Salpingostomy (salpingoneostomy)  | Procedure     | CPT-4     |
| 58800 | Drainage of ovarian cyst(s), unilateral or bilateral (separate procedure); vaginal approach   | Procedure     | CPT-4     |
| 58805 | Drainage of ovarian cyst(s), unilateral or bilateral (separate procedure); abdominal approach   | Procedure     | CPT-4     |
| 58820 | Drainage of ovarian abscess; vaginal approach, open   | Procedure     | CPT-4     |
| 58822 | Drainage of ovarian abscess; abdominal approach   | Procedure     | CPT-4     |
| 58823 | Drainage of pelvic abscess, transvaginal or transrectal approach, percutaneous (eg, ovarian, pericolic)   | Procedure     | CPT-4     |
| 58825 | Transposition, ovary(s)   | Procedure     | CPT-4     |
| 58900 | Biopsy of ovary, unilateral or bilateral (separate procedure)   | Procedure     | CPT-4     |
| 58920 | Wedge resection or bisection of ovary, unilateral or bilateral  | Procedure     | CPT-4     |
| 58925 | Ovarian cystectomy, unilateral or bilateral   | Procedure     | CPT-4     |
| 58940 | Oophorectomy, partial or total, unilateral or bilateral;  | Procedure     | CPT-4     |
| 58943 | Oophorectomy, partial or total, unilateral or bilateral; for ovarian, tubal or primary peritoneal malignancy, with para-aortic and pelvic lymph node biopsies, peritoneal washings, peritoneal biopsies, diaphragmatic assessments, with or without salpingectomy(s), with or without omentectomy | Procedure     | CPT-4     |
| 58950 | Resection (initial) of ovarian, tubal or primary peritoneal malignancy with bilateral salpingo-oophorectomy and omentectomy;  | Procedure     | CPT-4     |
| 58951 | Resection (initial) of ovarian, tubal or primary peritoneal malignancy with bilateral salpingo-oophorectomy and omentectomy; with total abdominal hysterectomy, pelvic and limited para-aortic lymphadenectomy  | Procedure     | CPT-4     |
| 58952 | Resection (initial) of ovarian, tubal or primary peritoneal malignancy with bilateral salpingo-oophorectomy and omentectomy; with radical dissection for debulking (ie, radical excision or destruction, intra-abdominal or retroperitoneal tumors)   | Procedure     | CPT-4     |
| 58953 | Bilateral salpingo-oophorectomy with omentectomy, total abdominal hysterectomy and radical dissection for debulking;  | Procedure     | CPT-4     |
| 58954 | Bilateral salpingo-oophorectomy with omentectomy, total abdominal hysterectomy and radical dissection for debulking; with pelvic lymphadenectomy and limited para-aortic lymphadenectomy  | Procedure     | CPT-4     |
| 58956 | Bilateral salpingo-oophorectomy with total omentectomy, total abdominal hysterectomy for malignancy   | Procedure     | CPT-4     |

**Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Inclusion Criteria in this Request**

| Code  | Description  | Code Category | Code Type |
|-------|--|---------------|-----------|
| 58957 | Resection (tumor debulking) of recurrent ovarian, tubal, primary peritoneal, uterine malignancy (intra-abdominal, retroperitoneal tumors), with omentectomy, if performed;   | Procedure     | CPT-4     |
| 58958 | Resection (tumor debulking) of recurrent ovarian, tubal, primary peritoneal, uterine malignancy (intra-abdominal, retroperitoneal tumors), with omentectomy, if performed; with pelvic lymphadenectomy and limited para-aortic lymphadenectomy                                   | Procedure     | CPT-4     |
| 58960 | Laparotomy, for staging or restaging of ovarian, tubal, or primary peritoneal malignancy (second look), with or without omentectomy, peritoneal washing, biopsy of abdominal and pelvic peritoneum, diaphragmatic assessment with pelvic and limited para-aortic lymphadenectomy | Procedure     | CPT-4     |
| 58970 | Follicle puncture for oocyte retrieval, any method   | Procedure     | CPT-4     |
| 58972 | CULTURE & FERTILIZATION OOCYTE   | Procedure     | CPT-4     |
| 58974 | Embryo transfer, intrauterine  | Procedure     | CPT-4     |
| 58976 | Gamete, zygote, or embryo intrafallopian transfer, any method  | Procedure     | CPT-4     |
| 58982 | Laparoscopy, Surgical; With Fulguration Of Oviducts (with Or Without Transection)  | Procedure     | CPT-4     |
| 58983 | Laparoscopy, Surgical; With Occlusion Of Oviducts By Device (eg, Band, Clip, Or Falope Ring)   | Procedure     | CPT-4     |
| 58984 | Laparoscopy, Surgical; With Fulguration Or Excision Of Lesions Of The Ovary, Pelvic Viscera, Or Peritoneal Surface By Any Method   | Procedure     | CPT-4     |
| 58985 | Laparoscopy, Surgical; With Lysis Of Adhesions   | Procedure     | CPT-4     |
| 58986 | Laparoscopy, Surgical; With Biopsy (single Or Multiple)  | Procedure     | CPT-4     |
| 58987 | Laparoscopy, Surgical; With Aspiration (single Or Multiple)  | Procedure     | CPT-4     |
| 58988 | Laparoscopy, Surgical; With Removal Of Adnexal Structures (partial Or Total Oophorectomy And/or Salpingectomy)   | Procedure     | CPT-4     |
| 58990 | Hysteroscopy; Diagnostic   | Procedure     | CPT-4     |
| 58992 | Hysteroscopy; With Lysis Of Intrauterine Adhesions Or Resection Of Intrauterine Septum (any Method)  | Procedure     | CPT-4     |
| 58994 | Hysteroscopy; With Removal Of Submucous Leiomyomata (any Method)   | Procedure     | CPT-4     |
| 58995 | Hysteroscopy   | Procedure     | CPT-4     |
| 58996 | Hysteroscopy; With Endometrial Ablation (any Method)   | Procedure     | CPT-4     |
| 59100 | Hysterotomy, abdominal (eg, for hydatidiform mole, abortion)   | Procedure     | CPT-4     |
| 59101 | Hysterotomy, Abdominal, For Removal Of Hydatidiform Mole   | Procedure     | CPT-4     |
| 59105 | Hysterotomy, Abdominal, For Legal Abortion   | Procedure     | CPT-4     |
| 59106 | Hysterotomy, Abdominal, For Legal Abortion   | Procedure     | CPT-4     |
| 59120 | Surgical treatment of ectopic pregnancy; tubal or ovarian, requiring salpingectomy and/or oophorectomy, abdominal or vaginal approach  | Procedure     | CPT-4     |
| 59121 | Surgical treatment of ectopic pregnancy; tubal or ovarian, without salpingectomy and/or oophorectomy   | Procedure     | CPT-4     |
| 59130 | Surgical treatment of ectopic pregnancy; abdominal pregnancy   | Procedure     | CPT-4     |
| 59135 | Surgical treatment of ectopic pregnancy; interstitial, uterine pregnancy requiring total hysterectomy  | Procedure     | CPT-4     |

**Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Inclusion Criteria in this Request**

| Code    | Description   | Code Category | Code Type  |
|---------|---|---------------|------------|
| 59136   | Surgical treatment of ectopic pregnancy; interstitial, uterine pregnancy with partial resection of uterus   | Procedure     | CPT-4      |
| 59140   | Surgical treatment of ectopic pregnancy; cervical, with evacuation  | Procedure     | CPT-4      |
| 59150   | Laparoscopic treatment of ectopic pregnancy; without salpingectomy and/or oophorectomy  | Procedure     | CPT-4      |
| 59151   | Laparoscopic treatment of ectopic pregnancy; with salpingectomy and/or oophorectomy   | Procedure     | CPT-4      |
| 59350   | Hysterorrhaphy of ruptured uterus   | Procedure     | CPT-4      |
| 59351   | Hysterorrhaphy Of Ruptured Uterus   | Procedure     | CPT-4      |
| 59525   | Subtotal or total hysterectomy after cesarean delivery (List separately in addition to code for primary procedure)  | Procedure     | CPT-4      |
| 59560   | Cesarean Section With Hysterectomy, Subtotal, Including   | Procedure     | CPT-4      |
| 59561   | Cesarean Section With Hysterectomy, Subtotal, Including   | Procedure     | CPT-4      |
| 59580   | Cesarean Section With Hysterectomy, Total, Including  | Procedure     | CPT-4      |
| 59581   | Cesarean Section With Hysterectomy, Total, Including  | Procedure     | CPT-4      |
| 59852   | Induced abortion, by 1 or more intra-amniotic injections (amniocentesis-injections), including hospital admission and visits, delivery of fetus and secundines; with hysterotomy (failed intra-amniotic injection)                                  | Procedure     | CPT-4      |
| 59857   | Induced abortion, by 1 or more vaginal suppositories (eg, prostaglandin) with or without cervical dilation (eg, laminaria), including hospital admission and visits, delivery of fetus and secundines; with hysterotomy (failed medical evacuation) | Procedure     | CPT-4      |
| 59898   | Unlisted laparoscopy procedure, maternity care and delivery   | Procedure     | CPT-4      |
| 74740   | Hysterosalpingography, radiological supervision and interpretation  | Procedure     | CPT-4      |
| 74741   | Hysterosalpingography; Complete Procedure   | Procedure     | CPT-4      |
| 76831   | Saline infusion sonohysterography (SIS), including color flow Doppler, when performed   | Procedure     | CPT-4      |
| 89250   | Culture of oocyte(s)/embryo(s), less than 4 days;   | Procedure     | CPT-4      |
| 89251   | Culture of oocyte(s)/embryo(s), less than 4 days; with co-culture of oocyte(s)/embryos  | Procedure     | CPT-4      |
| 89252   | Assisted oocyte fertilization, microtechnique (any method)  | Procedure     | CPT-4      |
| 89253   | Assisted embryo hatching, microtechniques (any method)  | Procedure     | CPT-4      |
| 89254   | Oocyte identification from follicular fluid   | Procedure     | CPT-4      |
| 89255   | Preparation of embryo for transfer (any method)   | Procedure     | CPT-4      |
| 89268   | Insemination of oocytes   | Procedure     | CPT-4      |
| 89272   | Extended culture of oocyte(s)/embryo(s), 4-7 days   | Procedure     | CPT-4      |
| 89280   | Assisted oocyte fertilization, microtechnique; less than or equal to 10 oocytes   | Procedure     | CPT-4      |
| 89281   | Assisted oocyte fertilization, microtechnique; greater than 10 oocytes  | Procedure     | CPT-4      |
| 89290   | Biopsy, oocyte polar body or embryo blastomere, microtechnique (for pre-implantation genetic diagnosis); less than or equal to 5 embryos  | Procedure     | CPT-4      |
| 89291   | Biopsy, oocyte polar body or embryo blastomere, microtechnique (for pre-implantation genetic diagnosis); greater than 5 embryos   | Procedure     | CPT-4      |
| BU02YZZ | Plain Radiography of Bilateral Fallopian Tubes using Other Contrast   | Procedure     | ICD-10-PCS |
| BU060ZZ | Plain Radiography of Uterus using High Osmolar Contrast   | Procedure     | ICD-10-PCS |

**Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Inclusion Criteria in this Request**

| Code    | Description  | Code Category | Code Type  |
|---------|--|---------------|------------|
| BU061ZZ | Plain Radiography of Uterus using Low Osmolar Contrast   | Procedure     | ICD-10-PCS |
| BU06YZZ | Plain Radiography of Uterus using Other Contrast   | Procedure     | ICD-10-PCS |
| BU08YZZ | Plain Radiography of Uterus and Fallopian Tubes using Other Contrast   | Procedure     | ICD-10-PCS |
| BU12YZZ | Fluoroscopy of Bilateral Fallopian Tubes using Other Contrast  | Procedure     | ICD-10-PCS |
| BU160ZZ | Fluoroscopy of Uterus using High Osmolar Contrast  | Procedure     | ICD-10-PCS |
| BU161ZZ | Fluoroscopy of Uterus using Low Osmolar Contrast   | Procedure     | ICD-10-PCS |
| BU16YZZ | Fluoroscopy of Uterus using Other Contrast   | Procedure     | ICD-10-PCS |
| BU16ZZZ | Fluoroscopy of Uterus  | Procedure     | ICD-10-PCS |
| BU18YZZ | Fluoroscopy of Uterus and Fallopian Tubes using Other Contrast   | Procedure     | ICD-10-PCS |
| G0331   | PET imaging restaging ovarian  | Procedure     | HCPCS      |
| G9823   | Endometrial sampling or hysteroscopy with biopsy and results documented  | Procedure     | HCPCS      |
| G9824   | Endometrial sampling or hysteroscopy with biopsy and results not documented  | Procedure     | HCPCS      |
| S2078   | Laparoscopic supracervical hysterectomy (subtotal hysterectomy), with or without removal of tube(s), with or without removal of ovary(s)   | Procedure     | HCPCS      |
| S2255   | Hysteroscopy, surgical; with occlusion of oviducts bilaterally by micro-inserts for permanent sterilization  | Procedure     | HCPCS      |
| S4011   | In vitro fertilization; including but not limited to identification and incubation of mature oocytes, fertilization with sperm, incubation of embryo(s), and subsequent visualization for determination of development | Procedure     | HCPCS      |
| S4013   | Complete cycle, gamete intrafallopian transfer (GIFT), case rate   | Procedure     | HCPCS      |
| S4014   | Complete cycle, zygote intrafallopian transfer (ZIFT), case rate   | Procedure     | HCPCS      |
| S4015   | Complete in vitro fertilization cycle, not otherwise specified, case rate  | Procedure     | HCPCS      |
| S4016   | Frozen in vitro fertilization cycle, case rate   | Procedure     | HCPCS      |
| S4022   | Assisted oocyte fertilization, case rate   | Procedure     | HCPCS      |
| S4023   | Donor egg cycle, incomplete, case rate   | Procedure     | HCPCS      |
| S4025   | Donor services for in vitro fertilization (sperm or embryo), case rate   | Procedure     | HCPCS      |
| S4035   | Stimulated intrauterine insemination (IUI), case rate  | Procedure     | HCPCS      |
| S4037   | Cryopreserved embryo transfer, case rate   | Procedure     | HCPCS      |
| S4040   | Monitoring and storage of cryopreserved embryos, per 30 days   | Procedure     | HCPCS      |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code                       | Description   | Code Category | Code Type |
|----------------------------|---|---------------|-----------|
| <b>Arthropod Encounter</b> |   |               |           |
| S00.06                     | Insect bite (nonvenomous) of scalp  | Diagnosis     | ICD-10-CM |
| S00.06XA                   | Insect bite (nonvenomous) of scalp, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S00.06XD                   | Insect bite (nonvenomous) of scalp, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S00.06XS                   | Insect bite (nonvenomous) of scalp, sequela   | Diagnosis     | ICD-10-CM |
| S00.26                     | Insect bite (nonvenomous) of eyelid and periocular area                                   | Diagnosis     | ICD-10-CM |
| S00.261                    | Insect bite (nonvenomous) of right eyelid and periocular area                             | Diagnosis     | ICD-10-CM |
| S00.261A                   | Insect bite (nonvenomous) of right eyelid and periocular area, initial encounter          | Diagnosis     | ICD-10-CM |
| S00.261D                   | Insect bite (nonvenomous) of right eyelid and periocular area, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S00.261S                   | Insect bite (nonvenomous) of right eyelid and periocular area, sequela                    | Diagnosis     | ICD-10-CM |
| S00.262                    | Insect bite (nonvenomous) of left eyelid and periocular area                              | Diagnosis     | ICD-10-CM |
| S00.262A                   | Insect bite (nonvenomous) of left eyelid and periocular area, initial encounter           | Diagnosis     | ICD-10-CM |
| S00.262D                   | Insect bite (nonvenomous) of left eyelid and periocular area, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S00.262S                   | Insect bite (nonvenomous) of left eyelid and periocular area, sequela                     | Diagnosis     | ICD-10-CM |
| S00.269                    | Insect bite (nonvenomous) of unspecified eyelid and periocular area                       | Diagnosis     | ICD-10-CM |
| S00.269A                   | Insect bite (nonvenomous) of unspecified eyelid and periocular area, initial encounter    | Diagnosis     | ICD-10-CM |
| S00.269D                   | Insect bite (nonvenomous) of unspecified eyelid and periocular area, subsequent encounter | Diagnosis     | ICD-10-CM |
| S00.269S                   | Insect bite (nonvenomous) of unspecified eyelid and periocular area, sequela              | Diagnosis     | ICD-10-CM |
| S00.36                     | Insect bite (nonvenomous) of nose   | Diagnosis     | ICD-10-CM |
| S00.36XA                   | Insect bite (nonvenomous) of nose, initial encounter                                      | Diagnosis     | ICD-10-CM |
| S00.36XD                   | Insect bite (nonvenomous) of nose, subsequent encounter                                   | Diagnosis     | ICD-10-CM |
| S00.36XS                   | Insect bite (nonvenomous) of nose, sequela  | Diagnosis     | ICD-10-CM |
| S00.46                     | Insect bite (nonvenomous) of ear  | Diagnosis     | ICD-10-CM |
| S00.461                    | Insect bite (nonvenomous) of right ear  | Diagnosis     | ICD-10-CM |
| S00.461A                   | Insect bite (nonvenomous) of right ear, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S00.461D                   | Insect bite (nonvenomous) of right ear, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S00.461S                   | Insect bite (nonvenomous) of right ear, sequela   | Diagnosis     | ICD-10-CM |
| S00.462                    | Insect bite (nonvenomous) of left ear   | Diagnosis     | ICD-10-CM |
| S00.462A                   | Insect bite (nonvenomous) of left ear, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S00.462D                   | Insect bite (nonvenomous) of left ear, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S00.462S                   | Insect bite (nonvenomous) of left ear, sequela  | Diagnosis     | ICD-10-CM |
| S00.469                    | Insect bite (nonvenomous) of unspecified ear  | Diagnosis     | ICD-10-CM |
| S00.469A                   | Insect bite (nonvenomous) of unspecified ear, initial encounter                           | Diagnosis     | ICD-10-CM |
| S00.469D                   | Insect bite (nonvenomous) of unspecified ear, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S00.469S                   | Insect bite (nonvenomous) of unspecified ear, sequela                                     | Diagnosis     | ICD-10-CM |
| S00.56                     | Insect bite (nonvenomous) of lip and oral cavity  | Diagnosis     | ICD-10-CM |
| S00.561                    | Insect bite (nonvenomous) of lip  | Diagnosis     | ICD-10-CM |
| S00.561A                   | Insect bite (nonvenomous) of lip, initial encounter                                       | Diagnosis     | ICD-10-CM |
| S00.561D                   | Insect bite (nonvenomous) of lip, subsequent encounter                                    | Diagnosis     | ICD-10-CM |
| S00.561S                   | Insect bite (nonvenomous) of lip, sequela   | Diagnosis     | ICD-10-CM |
| S00.562                    | Insect bite (nonvenomous) of oral cavity  | Diagnosis     | ICD-10-CM |
| S00.562A                   | Insect bite (nonvenomous) of oral cavity, initial encounter                               | Diagnosis     | ICD-10-CM |
| S00.562D                   | Insect bite (nonvenomous) of oral cavity, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S00.562S                   | Insect bite (nonvenomous) of oral cavity, sequela   | Diagnosis     | ICD-10-CM |
| S00.86                     | Insect bite (nonvenomous) of other part of head   | Diagnosis     | ICD-10-CM |
| S00.86XA                   | Insect bite (nonvenomous) of other part of head, initial encounter                        | Diagnosis     | ICD-10-CM |
| S00.86XD                   | Insect bite (nonvenomous) of other part of head, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S00.86XS                   | Insect bite (nonvenomous) of other part of head, sequela                                  | Diagnosis     | ICD-10-CM |
| S00.96                     | Insect bite (nonvenomous) of unspecified part of head                                     | Diagnosis     | ICD-10-CM |
| S00.96XA                   | Insect bite (nonvenomous) of unspecified part of head, initial encounter                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S00.96XD | Insect bite (nonvenomous) of unspecified part of head, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S00.96XS | Insect bite (nonvenomous) of unspecified part of head, sequela                      | Diagnosis     | ICD-10-CM |
| S10.16   | Insect bite (nonvenomous) of throat   | Diagnosis     | ICD-10-CM |
| S10.16XA | Insect bite (nonvenomous) of throat, initial encounter                              | Diagnosis     | ICD-10-CM |
| S10.16XD | Insect bite (nonvenomous) of throat, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S10.16XS | Insect bite (nonvenomous) of throat, sequela  | Diagnosis     | ICD-10-CM |
| S10.86   | Insect bite of other specified part of neck   | Diagnosis     | ICD-10-CM |
| S10.86XA | Insect bite of other specified part of neck, initial encounter                      | Diagnosis     | ICD-10-CM |
| S10.86XD | Insect bite of other specified part of neck, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S10.86XS | Insect bite of other specified part of neck, sequela                                | Diagnosis     | ICD-10-CM |
| S10.96   | Insect bite of unspecified part of neck   | Diagnosis     | ICD-10-CM |
| S10.96XA | Insect bite of unspecified part of neck, initial encounter                          | Diagnosis     | ICD-10-CM |
| S10.96XD | Insect bite of unspecified part of neck, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S10.96XS | Insect bite of unspecified part of neck, sequela                                    | Diagnosis     | ICD-10-CM |
| S20.16   | Insect bite (nonvenomous) of breast   | Diagnosis     | ICD-10-CM |
| S20.161  | Insect bite (nonvenomous) of breast, right breast                                   | Diagnosis     | ICD-10-CM |
| S20.161A | Insect bite (nonvenomous) of breast, right breast, initial encounter                | Diagnosis     | ICD-10-CM |
| S20.161D | Insect bite (nonvenomous) of breast, right breast, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S20.161S | Insect bite (nonvenomous) of breast, right breast, sequela                          | Diagnosis     | ICD-10-CM |
| S20.162  | Insect bite (nonvenomous) of breast, left breast                                    | Diagnosis     | ICD-10-CM |
| S20.162A | Insect bite (nonvenomous) of breast, left breast, initial encounter                 | Diagnosis     | ICD-10-CM |
| S20.162D | Insect bite (nonvenomous) of breast, left breast, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S20.162S | Insect bite (nonvenomous) of breast, left breast, sequela                           | Diagnosis     | ICD-10-CM |
| S20.169  | Insect bite (nonvenomous) of breast, unspecified breast                             | Diagnosis     | ICD-10-CM |
| S20.169A | Insect bite (nonvenomous) of breast, unspecified breast, initial encounter          | Diagnosis     | ICD-10-CM |
| S20.169D | Insect bite (nonvenomous) of breast, unspecified breast, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S20.169S | Insect bite (nonvenomous) of breast, unspecified breast, sequela                    | Diagnosis     | ICD-10-CM |
| S20.36   | Insect bite (nonvenomous) of front wall of thorax                                   | Diagnosis     | ICD-10-CM |
| S20.361  | Insect bite (nonvenomous) of right front wall of thorax                             | Diagnosis     | ICD-10-CM |
| S20.361A | Insect bite (nonvenomous) of right front wall of thorax, initial encounter          | Diagnosis     | ICD-10-CM |
| S20.361D | Insect bite (nonvenomous) of right front wall of thorax, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S20.361S | Insect bite (nonvenomous) of right front wall of thorax, sequela                    | Diagnosis     | ICD-10-CM |
| S20.362  | Insect bite (nonvenomous) of left front wall of thorax                              | Diagnosis     | ICD-10-CM |
| S20.362A | Insect bite (nonvenomous) of left front wall of thorax, initial encounter           | Diagnosis     | ICD-10-CM |
| S20.362D | Insect bite (nonvenomous) of left front wall of thorax, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S20.362S | Insect bite (nonvenomous) of left front wall of thorax, sequela                     | Diagnosis     | ICD-10-CM |
| S20.369  | Insect bite (nonvenomous) of unspecified front wall of thorax                       | Diagnosis     | ICD-10-CM |
| S20.369A | Insect bite (nonvenomous) of unspecified front wall of thorax, initial encounter    | Diagnosis     | ICD-10-CM |
| S20.369D | Insect bite (nonvenomous) of unspecified front wall of thorax, subsequent encounter | Diagnosis     | ICD-10-CM |
| S20.369S | Insect bite (nonvenomous) of unspecified front wall of thorax, sequela              | Diagnosis     | ICD-10-CM |
| S20.46   | Insect bite (nonvenomous) of back wall of thorax                                    | Diagnosis     | ICD-10-CM |
| S20.461  | Insect bite (nonvenomous) of right back wall of thorax                              | Diagnosis     | ICD-10-CM |
| S20.461A | Insect bite (nonvenomous) of right back wall of thorax, initial encounter           | Diagnosis     | ICD-10-CM |
| S20.461D | Insect bite (nonvenomous) of right back wall of thorax, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S20.461S | Insect bite (nonvenomous) of right back wall of thorax, sequela                     | Diagnosis     | ICD-10-CM |
| S20.462  | Insect bite (nonvenomous) of left back wall of thorax                               | Diagnosis     | ICD-10-CM |
| S20.462A | Insect bite (nonvenomous) of left back wall of thorax, initial encounter            | Diagnosis     | ICD-10-CM |
| S20.462D | Insect bite (nonvenomous) of left back wall of thorax, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S20.462S | Insect bite (nonvenomous) of left back wall of thorax, sequela                      | Diagnosis     | ICD-10-CM |
| S20.469  | Insect bite (nonvenomous) of unspecified back wall of thorax                        | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S20.469A | Insect bite (nonvenomous) of unspecified back wall of thorax, initial encounter                | Diagnosis     | ICD-10-CM |
| S20.469D | Insect bite (nonvenomous) of unspecified back wall of thorax, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S20.469S | Insect bite (nonvenomous) of unspecified back wall of thorax, sequela                          | Diagnosis     | ICD-10-CM |
| S20.96   | Insect bite (nonvenomous) of unspecified parts of thorax                                       | Diagnosis     | ICD-10-CM |
| S20.96XA | Insect bite (nonvenomous) of unspecified parts of thorax, initial encounter                    | Diagnosis     | ICD-10-CM |
| S20.96XD | Insect bite (nonvenomous) of unspecified parts of thorax, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S20.96XS | Insect bite (nonvenomous) of unspecified parts of thorax, sequela                              | Diagnosis     | ICD-10-CM |
| S30.86   | Insect bite (nonvenomous) of abdomen, lower back, pelvis and external genitals                 | Diagnosis     | ICD-10-CM |
| S30.860  | Insect bite (nonvenomous) of lower back and pelvis   | Diagnosis     | ICD-10-CM |
| S30.860A | Insect bite (nonvenomous) of lower back and pelvis, initial encounter                          | Diagnosis     | ICD-10-CM |
| S30.860D | Insect bite (nonvenomous) of lower back and pelvis, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S30.860S | Insect bite (nonvenomous) of lower back and pelvis, sequela                                    | Diagnosis     | ICD-10-CM |
| S30.861  | Insect bite (nonvenomous) of abdominal wall  | Diagnosis     | ICD-10-CM |
| S30.861A | Insect bite (nonvenomous) of abdominal wall, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S30.861D | Insect bite (nonvenomous) of abdominal wall, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S30.861S | Insect bite (nonvenomous) of abdominal wall, sequela   | Diagnosis     | ICD-10-CM |
| S30.862  | Insect bite (nonvenomous) of penis   | Diagnosis     | ICD-10-CM |
| S30.862A | Insect bite (nonvenomous) of penis, initial encounter  | Diagnosis     | ICD-10-CM |
| S30.862D | Insect bite (nonvenomous) of penis, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S30.862S | Insect bite (nonvenomous) of penis, sequela  | Diagnosis     | ICD-10-CM |
| S30.863  | Insect bite (nonvenomous) of scrotum and testes  | Diagnosis     | ICD-10-CM |
| S30.863A | Insect bite (nonvenomous) of scrotum and testes, initial encounter                             | Diagnosis     | ICD-10-CM |
| S30.863D | Insect bite (nonvenomous) of scrotum and testes, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S30.863S | Insect bite (nonvenomous) of scrotum and testes, sequela                                       | Diagnosis     | ICD-10-CM |
| S30.864  | Insect bite (nonvenomous) of vagina and vulva  | Diagnosis     | ICD-10-CM |
| S30.864A | Insect bite (nonvenomous) of vagina and vulva, initial encounter                               | Diagnosis     | ICD-10-CM |
| S30.864D | Insect bite (nonvenomous) of vagina and vulva, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S30.864S | Insect bite (nonvenomous) of vagina and vulva, sequela   | Diagnosis     | ICD-10-CM |
| S30.865  | Insect bite (nonvenomous) of unspecified external genital organs, male                         | Diagnosis     | ICD-10-CM |
| S30.865A | Insect bite (nonvenomous) of unspecified external genital organs, male, initial encounter      | Diagnosis     | ICD-10-CM |
| S30.865D | Insect bite (nonvenomous) of unspecified external genital organs, male, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S30.865S | Insect bite (nonvenomous) of unspecified external genital organs, male, sequela                | Diagnosis     | ICD-10-CM |
| S30.866  | Insect bite (nonvenomous) of unspecified external genital organs, female                       | Diagnosis     | ICD-10-CM |
| S30.866A | Insect bite (nonvenomous) of unspecified external genital organs, female, initial encounter    | Diagnosis     | ICD-10-CM |
| S30.866D | Insect bite (nonvenomous) of unspecified external genital organs, female, subsequent encounter | Diagnosis     | ICD-10-CM |
| S30.866S | Insect bite (nonvenomous) of unspecified external genital organs, female, sequela              | Diagnosis     | ICD-10-CM |
| S30.867  | Insect bite (nonvenomous) of anus  | Diagnosis     | ICD-10-CM |
| S30.867A | Insect bite (nonvenomous) of anus, initial encounter   | Diagnosis     | ICD-10-CM |
| S30.867D | Insect bite (nonvenomous) of anus, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S30.867S | Insect bite (nonvenomous) of anus, sequela   | Diagnosis     | ICD-10-CM |
| S40.26   | Insect bite (nonvenomous) of shoulder  | Diagnosis     | ICD-10-CM |
| S40.261  | Insect bite (nonvenomous) of right shoulder  | Diagnosis     | ICD-10-CM |
| S40.261A | Insect bite (nonvenomous) of right shoulder, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S40.261D | Insect bite (nonvenomous) of right shoulder, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S40.261S | Insect bite (nonvenomous) of right shoulder, sequela   | Diagnosis     | ICD-10-CM |
| S40.262  | Insect bite (nonvenomous) of left shoulder   | Diagnosis     | ICD-10-CM |
| S40.262A | Insect bite (nonvenomous) of left shoulder, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S40.262D | Insect bite (nonvenomous) of left shoulder, subsequent encounter                               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S40.262S | Insect bite (nonvenomous) of left shoulder, sequela                      | Diagnosis     | ICD-10-CM |
| S40.269  | Insect bite (nonvenomous) of unspecified shoulder                        | Diagnosis     | ICD-10-CM |
| S40.269A | Insect bite (nonvenomous) of unspecified shoulder, initial encounter     | Diagnosis     | ICD-10-CM |
| S40.269D | Insect bite (nonvenomous) of unspecified shoulder, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S40.269S | Insect bite (nonvenomous) of unspecified shoulder, sequela               | Diagnosis     | ICD-10-CM |
| S40.86   | Insect bite (nonvenomous) of upper arm                                   | Diagnosis     | ICD-10-CM |
| S40.861  | Insect bite (nonvenomous) of right upper arm                             | Diagnosis     | ICD-10-CM |
| S40.861A | Insect bite (nonvenomous) of right upper arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S40.861D | Insect bite (nonvenomous) of right upper arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S40.861S | Insect bite (nonvenomous) of right upper arm, sequela                    | Diagnosis     | ICD-10-CM |
| S40.862  | Insect bite (nonvenomous) of left upper arm                              | Diagnosis     | ICD-10-CM |
| S40.862A | Insect bite (nonvenomous) of left upper arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S40.862D | Insect bite (nonvenomous) of left upper arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S40.862S | Insect bite (nonvenomous) of left upper arm, sequela                     | Diagnosis     | ICD-10-CM |
| S40.869  | Insect bite (nonvenomous) of unspecified upper arm                       | Diagnosis     | ICD-10-CM |
| S40.869A | Insect bite (nonvenomous) of unspecified upper arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S40.869D | Insect bite (nonvenomous) of unspecified upper arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S40.869S | Insect bite (nonvenomous) of unspecified upper arm, sequela              | Diagnosis     | ICD-10-CM |
| S50.36   | Insect bite (nonvenomous) of elbow                                       | Diagnosis     | ICD-10-CM |
| S50.361  | Insect bite (nonvenomous) of right elbow                                 | Diagnosis     | ICD-10-CM |
| S50.361A | Insect bite (nonvenomous) of right elbow, initial encounter              | Diagnosis     | ICD-10-CM |
| S50.361D | Insect bite (nonvenomous) of right elbow, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S50.361S | Insect bite (nonvenomous) of right elbow, sequela                        | Diagnosis     | ICD-10-CM |
| S50.362  | Insect bite (nonvenomous) of left elbow                                  | Diagnosis     | ICD-10-CM |
| S50.362A | Insect bite (nonvenomous) of left elbow, initial encounter               | Diagnosis     | ICD-10-CM |
| S50.362D | Insect bite (nonvenomous) of left elbow, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S50.362S | Insect bite (nonvenomous) of left elbow, sequela                         | Diagnosis     | ICD-10-CM |
| S50.369  | Insect bite (nonvenomous) of unspecified elbow                           | Diagnosis     | ICD-10-CM |
| S50.369A | Insect bite (nonvenomous) of unspecified elbow, initial encounter        | Diagnosis     | ICD-10-CM |
| S50.369D | Insect bite (nonvenomous) of unspecified elbow, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S50.369S | Insect bite (nonvenomous) of unspecified elbow, sequela                  | Diagnosis     | ICD-10-CM |
| S50.86   | Insect bite (nonvenomous) of forearm                                     | Diagnosis     | ICD-10-CM |
| S50.861  | Insect bite (nonvenomous) of right forearm                               | Diagnosis     | ICD-10-CM |
| S50.861A | Insect bite (nonvenomous) of right forearm, initial encounter            | Diagnosis     | ICD-10-CM |
| S50.861D | Insect bite (nonvenomous) of right forearm, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S50.861S | Insect bite (nonvenomous) of right forearm, sequela                      | Diagnosis     | ICD-10-CM |
| S50.862  | Insect bite (nonvenomous) of left forearm                                | Diagnosis     | ICD-10-CM |
| S50.862A | Insect bite (nonvenomous) of left forearm, initial encounter             | Diagnosis     | ICD-10-CM |
| S50.862D | Insect bite (nonvenomous) of left forearm, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S50.862S | Insect bite (nonvenomous) of left forearm, sequela                       | Diagnosis     | ICD-10-CM |
| S50.869  | Insect bite (nonvenomous) of unspecified forearm                         | Diagnosis     | ICD-10-CM |
| S50.869A | Insect bite (nonvenomous) of unspecified forearm, initial encounter      | Diagnosis     | ICD-10-CM |
| S50.869D | Insect bite (nonvenomous) of unspecified forearm, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S50.869S | Insect bite (nonvenomous) of unspecified forearm, sequela                | Diagnosis     | ICD-10-CM |
| S60.36   | Insect bite (nonvenomous) of thumb                                       | Diagnosis     | ICD-10-CM |
| S60.361  | Insect bite (nonvenomous) of right thumb                                 | Diagnosis     | ICD-10-CM |
| S60.361A | Insect bite (nonvenomous) of right thumb, initial encounter              | Diagnosis     | ICD-10-CM |
| S60.361D | Insect bite (nonvenomous) of right thumb, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S60.361S | Insect bite (nonvenomous) of right thumb, sequela                        | Diagnosis     | ICD-10-CM |
| S60.362  | Insect bite (nonvenomous) of left thumb                                  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S60.362A | Insect bite (nonvenomous) of left thumb, initial encounter             | Diagnosis     | ICD-10-CM |
| S60.362D | Insect bite (nonvenomous) of left thumb, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S60.362S | Insect bite (nonvenomous) of left thumb, sequela                       | Diagnosis     | ICD-10-CM |
| S60.369  | Insect bite (nonvenomous) of unspecified thumb                         | Diagnosis     | ICD-10-CM |
| S60.369A | Insect bite (nonvenomous) of unspecified thumb, initial encounter      | Diagnosis     | ICD-10-CM |
| S60.369D | Insect bite (nonvenomous) of unspecified thumb, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S60.369S | Insect bite (nonvenomous) of unspecified thumb, sequela                | Diagnosis     | ICD-10-CM |
| S60.46   | Insect bite (nonvenomous) of fingers                                   | Diagnosis     | ICD-10-CM |
| S60.460  | Insect bite (nonvenomous) of right index finger                        | Diagnosis     | ICD-10-CM |
| S60.460A | Insect bite (nonvenomous) of right index finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S60.460D | Insect bite (nonvenomous) of right index finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S60.460S | Insect bite (nonvenomous) of right index finger, sequela               | Diagnosis     | ICD-10-CM |
| S60.461  | Insect bite (nonvenomous) of left index finger                         | Diagnosis     | ICD-10-CM |
| S60.461A | Insect bite (nonvenomous) of left index finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S60.461D | Insect bite (nonvenomous) of left index finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S60.461S | Insect bite (nonvenomous) of left index finger, sequela                | Diagnosis     | ICD-10-CM |
| S60.462  | Insect bite (nonvenomous) of right middle finger                       | Diagnosis     | ICD-10-CM |
| S60.462A | Insect bite (nonvenomous) of right middle finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S60.462D | Insect bite (nonvenomous) of right middle finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S60.462S | Insect bite (nonvenomous) of right middle finger, sequela              | Diagnosis     | ICD-10-CM |
| S60.463  | Insect bite (nonvenomous) of left middle finger                        | Diagnosis     | ICD-10-CM |
| S60.463A | Insect bite (nonvenomous) of left middle finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S60.463D | Insect bite (nonvenomous) of left middle finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S60.463S | Insect bite (nonvenomous) of left middle finger, sequela               | Diagnosis     | ICD-10-CM |
| S60.464  | Insect bite (nonvenomous) of right ring finger                         | Diagnosis     | ICD-10-CM |
| S60.464A | Insect bite (nonvenomous) of right ring finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S60.464D | Insect bite (nonvenomous) of right ring finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S60.464S | Insect bite (nonvenomous) of right ring finger, sequela                | Diagnosis     | ICD-10-CM |
| S60.465  | Insect bite (nonvenomous) of left ring finger                          | Diagnosis     | ICD-10-CM |
| S60.465A | Insect bite (nonvenomous) of left ring finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S60.465D | Insect bite (nonvenomous) of left ring finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S60.465S | Insect bite (nonvenomous) of left ring finger, sequela                 | Diagnosis     | ICD-10-CM |
| S60.466  | Insect bite (nonvenomous) of right little finger                       | Diagnosis     | ICD-10-CM |
| S60.466A | Insect bite (nonvenomous) of right little finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S60.466D | Insect bite (nonvenomous) of right little finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S60.466S | Insect bite (nonvenomous) of right little finger, sequela              | Diagnosis     | ICD-10-CM |
| S60.467  | Insect bite (nonvenomous) of left little finger                        | Diagnosis     | ICD-10-CM |
| S60.467A | Insect bite (nonvenomous) of left little finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S60.467D | Insect bite (nonvenomous) of left little finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S60.467S | Insect bite (nonvenomous) of left little finger, sequela               | Diagnosis     | ICD-10-CM |
| S60.468  | Insect bite (nonvenomous) of other finger                              | Diagnosis     | ICD-10-CM |
| S60.468A | Insect bite (nonvenomous) of other finger, initial encounter           | Diagnosis     | ICD-10-CM |
| S60.468D | Insect bite (nonvenomous) of other finger, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S60.468S | Insect bite (nonvenomous) of other finger, sequela                     | Diagnosis     | ICD-10-CM |
| S60.469  | Insect bite (nonvenomous) of unspecified finger                        | Diagnosis     | ICD-10-CM |
| S60.469A | Insect bite (nonvenomous) of unspecified finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S60.469D | Insect bite (nonvenomous) of unspecified finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S60.469S | Insect bite (nonvenomous) of unspecified finger, sequela               | Diagnosis     | ICD-10-CM |
| S60.56   | Insect bite (nonvenomous) of hand                                      | Diagnosis     | ICD-10-CM |
| S60.561  | Insect bite (nonvenomous) of right hand                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S60.561A | Insect bite (nonvenomous) of right hand, initial encounter           | Diagnosis     | ICD-10-CM |
| S60.561D | Insect bite (nonvenomous) of right hand, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S60.561S | Insect bite (nonvenomous) of right hand, sequela                     | Diagnosis     | ICD-10-CM |
| S60.562  | Insect bite (nonvenomous) of left hand                               | Diagnosis     | ICD-10-CM |
| S60.562A | Insect bite (nonvenomous) of left hand, initial encounter            | Diagnosis     | ICD-10-CM |
| S60.562D | Insect bite (nonvenomous) of left hand, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S60.562S | Insect bite (nonvenomous) of left hand, sequela                      | Diagnosis     | ICD-10-CM |
| S60.569  | Insect bite (nonvenomous) of unspecified hand                        | Diagnosis     | ICD-10-CM |
| S60.569A | Insect bite (nonvenomous) of unspecified hand, initial encounter     | Diagnosis     | ICD-10-CM |
| S60.569D | Insect bite (nonvenomous) of unspecified hand, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S60.569S | Insect bite (nonvenomous) of unspecified hand, sequela               | Diagnosis     | ICD-10-CM |
| S60.86   | Insect bite (nonvenomous) of wrist                                   | Diagnosis     | ICD-10-CM |
| S60.861  | Insect bite (nonvenomous) of right wrist                             | Diagnosis     | ICD-10-CM |
| S60.861A | Insect bite (nonvenomous) of right wrist, initial encounter          | Diagnosis     | ICD-10-CM |
| S60.861D | Insect bite (nonvenomous) of right wrist, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S60.861S | Insect bite (nonvenomous) of right wrist, sequela                    | Diagnosis     | ICD-10-CM |
| S60.862  | Insect bite (nonvenomous) of left wrist                              | Diagnosis     | ICD-10-CM |
| S60.862A | Insect bite (nonvenomous) of left wrist, initial encounter           | Diagnosis     | ICD-10-CM |
| S60.862D | Insect bite (nonvenomous) of left wrist, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S60.862S | Insect bite (nonvenomous) of left wrist, sequela                     | Diagnosis     | ICD-10-CM |
| S60.869  | Insect bite (nonvenomous) of unspecified wrist                       | Diagnosis     | ICD-10-CM |
| S60.869A | Insect bite (nonvenomous) of unspecified wrist, initial encounter    | Diagnosis     | ICD-10-CM |
| S60.869D | Insect bite (nonvenomous) of unspecified wrist, subsequent encounter | Diagnosis     | ICD-10-CM |
| S60.869S | Insect bite (nonvenomous) of unspecified wrist, sequela              | Diagnosis     | ICD-10-CM |
| S70.26   | Insect bite (nonvenomous) of hip                                     | Diagnosis     | ICD-10-CM |
| S70.261  | Insect bite (nonvenomous), right hip                                 | Diagnosis     | ICD-10-CM |
| S70.261A | Insect bite (nonvenomous), right hip, initial encounter              | Diagnosis     | ICD-10-CM |
| S70.261D | Insect bite (nonvenomous), right hip, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S70.261S | Insect bite (nonvenomous), right hip, sequela                        | Diagnosis     | ICD-10-CM |
| S70.262  | Insect bite (nonvenomous), left hip                                  | Diagnosis     | ICD-10-CM |
| S70.262A | Insect bite (nonvenomous), left hip, initial encounter               | Diagnosis     | ICD-10-CM |
| S70.262D | Insect bite (nonvenomous), left hip, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S70.262S | Insect bite (nonvenomous), left hip, sequela                         | Diagnosis     | ICD-10-CM |
| S70.269  | Insect bite (nonvenomous), unspecified hip                           | Diagnosis     | ICD-10-CM |
| S70.269A | Insect bite (nonvenomous), unspecified hip, initial encounter        | Diagnosis     | ICD-10-CM |
| S70.269D | Insect bite (nonvenomous), unspecified hip, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S70.269S | Insect bite (nonvenomous), unspecified hip, sequela                  | Diagnosis     | ICD-10-CM |
| S70.36   | Insect bite (nonvenomous) of thigh                                   | Diagnosis     | ICD-10-CM |
| S70.361  | Insect bite (nonvenomous), right thigh                               | Diagnosis     | ICD-10-CM |
| S70.361A | Insect bite (nonvenomous), right thigh, initial encounter            | Diagnosis     | ICD-10-CM |
| S70.361D | Insect bite (nonvenomous), right thigh, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S70.361S | Insect bite (nonvenomous), right thigh, sequela                      | Diagnosis     | ICD-10-CM |
| S70.362  | Insect bite (nonvenomous), left thigh                                | Diagnosis     | ICD-10-CM |
| S70.362A | Insect bite (nonvenomous), left thigh, initial encounter             | Diagnosis     | ICD-10-CM |
| S70.362D | Insect bite (nonvenomous), left thigh, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S70.362S | Insect bite (nonvenomous), left thigh, sequela                       | Diagnosis     | ICD-10-CM |
| S70.369  | Insect bite (nonvenomous), unspecified thigh                         | Diagnosis     | ICD-10-CM |
| S70.369A | Insect bite (nonvenomous), unspecified thigh, initial encounter      | Diagnosis     | ICD-10-CM |
| S70.369D | Insect bite (nonvenomous), unspecified thigh, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S70.369S | Insect bite (nonvenomous), unspecified thigh, sequela                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S80.26   | Insect bite (nonvenomous) of knee  | Diagnosis     | ICD-10-CM |
| S80.261  | Insect bite (nonvenomous), right knee                                      | Diagnosis     | ICD-10-CM |
| S80.261A | Insect bite (nonvenomous), right knee, initial encounter                   | Diagnosis     | ICD-10-CM |
| S80.261D | Insect bite (nonvenomous), right knee, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S80.261S | Insect bite (nonvenomous), right knee, sequela                             | Diagnosis     | ICD-10-CM |
| S80.262  | Insect bite (nonvenomous), left knee                                       | Diagnosis     | ICD-10-CM |
| S80.262A | Insect bite (nonvenomous), left knee, initial encounter                    | Diagnosis     | ICD-10-CM |
| S80.262D | Insect bite (nonvenomous), left knee, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S80.262S | Insect bite (nonvenomous), left knee, sequela                              | Diagnosis     | ICD-10-CM |
| S80.269  | Insect bite (nonvenomous), unspecified knee                                | Diagnosis     | ICD-10-CM |
| S80.269A | Insect bite (nonvenomous), unspecified knee, initial encounter             | Diagnosis     | ICD-10-CM |
| S80.269D | Insect bite (nonvenomous), unspecified knee, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S80.269S | Insect bite (nonvenomous), unspecified knee, sequela                       | Diagnosis     | ICD-10-CM |
| S80.86   | Insect bite (nonvenomous) of lower leg                                     | Diagnosis     | ICD-10-CM |
| S80.861  | Insect bite (nonvenomous), right lower leg                                 | Diagnosis     | ICD-10-CM |
| S80.861A | Insect bite (nonvenomous), right lower leg, initial encounter              | Diagnosis     | ICD-10-CM |
| S80.861D | Insect bite (nonvenomous), right lower leg, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S80.861S | Insect bite (nonvenomous), right lower leg, sequela                        | Diagnosis     | ICD-10-CM |
| S80.862  | Insect bite (nonvenomous), left lower leg                                  | Diagnosis     | ICD-10-CM |
| S80.862A | Insect bite (nonvenomous), left lower leg, initial encounter               | Diagnosis     | ICD-10-CM |
| S80.862D | Insect bite (nonvenomous), left lower leg, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S80.862S | Insect bite (nonvenomous), left lower leg, sequela                         | Diagnosis     | ICD-10-CM |
| S80.869  | Insect bite (nonvenomous), unspecified lower leg                           | Diagnosis     | ICD-10-CM |
| S80.869A | Insect bite (nonvenomous), unspecified lower leg, initial encounter        | Diagnosis     | ICD-10-CM |
| S80.869D | Insect bite (nonvenomous), unspecified lower leg, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S80.869S | Insect bite (nonvenomous), unspecified lower leg, sequela                  | Diagnosis     | ICD-10-CM |
| S90.46   | Insect bite (nonvenomous) of toe   | Diagnosis     | ICD-10-CM |
| S90.461  | Insect bite (nonvenomous), right great toe                                 | Diagnosis     | ICD-10-CM |
| S90.461A | Insect bite (nonvenomous), right great toe, initial encounter              | Diagnosis     | ICD-10-CM |
| S90.461D | Insect bite (nonvenomous), right great toe, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S90.461S | Insect bite (nonvenomous), right great toe, sequela                        | Diagnosis     | ICD-10-CM |
| S90.462  | Insect bite (nonvenomous), left great toe                                  | Diagnosis     | ICD-10-CM |
| S90.462A | Insect bite (nonvenomous), left great toe, initial encounter               | Diagnosis     | ICD-10-CM |
| S90.462D | Insect bite (nonvenomous), left great toe, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S90.462S | Insect bite (nonvenomous), left great toe, sequela                         | Diagnosis     | ICD-10-CM |
| S90.463  | Insect bite (nonvenomous), unspecified great toe                           | Diagnosis     | ICD-10-CM |
| S90.463A | Insect bite (nonvenomous), unspecified great toe, initial encounter        | Diagnosis     | ICD-10-CM |
| S90.463D | Insect bite (nonvenomous), unspecified great toe, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S90.463S | Insect bite (nonvenomous), unspecified great toe, sequela                  | Diagnosis     | ICD-10-CM |
| S90.464  | Insect bite (nonvenomous), right lesser toe(s)                             | Diagnosis     | ICD-10-CM |
| S90.464A | Insect bite (nonvenomous), right lesser toe(s), initial encounter          | Diagnosis     | ICD-10-CM |
| S90.464D | Insect bite (nonvenomous), right lesser toe(s), subsequent encounter       | Diagnosis     | ICD-10-CM |
| S90.464S | Insect bite (nonvenomous), right lesser toe(s), sequela                    | Diagnosis     | ICD-10-CM |
| S90.465  | Insect bite (nonvenomous), left lesser toe(s)                              | Diagnosis     | ICD-10-CM |
| S90.465A | Insect bite (nonvenomous), left lesser toe(s), initial encounter           | Diagnosis     | ICD-10-CM |
| S90.465D | Insect bite (nonvenomous), left lesser toe(s), subsequent encounter        | Diagnosis     | ICD-10-CM |
| S90.465S | Insect bite (nonvenomous), left lesser toe(s), sequela                     | Diagnosis     | ICD-10-CM |
| S90.466  | Insect bite (nonvenomous), unspecified lesser toe(s)                       | Diagnosis     | ICD-10-CM |
| S90.466A | Insect bite (nonvenomous), unspecified lesser toe(s), initial encounter    | Diagnosis     | ICD-10-CM |
| S90.466D | Insect bite (nonvenomous), unspecified lesser toe(s), subsequent encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description  | Code Category | Code Type |
|--|--|---------------|-----------|
| S90.466S                                     | Insect bite (nonvenomous), unspecified lesser toe(s), sequela  | Diagnosis     | ICD-10-CM |
| S90.56                                       | Insect bite (nonvenomous) of ankle   | Diagnosis     | ICD-10-CM |
| S90.561                                      | Insect bite (nonvenomous), right ankle   | Diagnosis     | ICD-10-CM |
| S90.561A                                     | Insect bite (nonvenomous), right ankle, initial encounter  | Diagnosis     | ICD-10-CM |
| S90.561D                                     | Insect bite (nonvenomous), right ankle, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S90.561S                                     | Insect bite (nonvenomous), right ankle, sequela  | Diagnosis     | ICD-10-CM |
| S90.562                                      | Insect bite (nonvenomous), left ankle  | Diagnosis     | ICD-10-CM |
| S90.562A                                     | Insect bite (nonvenomous), left ankle, initial encounter   | Diagnosis     | ICD-10-CM |
| S90.562D                                     | Insect bite (nonvenomous), left ankle, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S90.562S                                     | Insect bite (nonvenomous), left ankle, sequela   | Diagnosis     | ICD-10-CM |
| S90.569                                      | Insect bite (nonvenomous), unspecified ankle   | Diagnosis     | ICD-10-CM |
| S90.569A                                     | Insect bite (nonvenomous), unspecified ankle, initial encounter  | Diagnosis     | ICD-10-CM |
| S90.569D                                     | Insect bite (nonvenomous), unspecified ankle, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S90.569S                                     | Insect bite (nonvenomous), unspecified ankle, sequela  | Diagnosis     | ICD-10-CM |
| S90.86                                       | Insect bite (nonvenomous) of foot  | Diagnosis     | ICD-10-CM |
| S90.861                                      | Insect bite (nonvenomous), right foot  | Diagnosis     | ICD-10-CM |
| S90.861A                                     | Insect bite (nonvenomous), right foot, initial encounter   | Diagnosis     | ICD-10-CM |
| S90.861D                                     | Insect bite (nonvenomous), right foot, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S90.861S                                     | Insect bite (nonvenomous), right foot, sequela   | Diagnosis     | ICD-10-CM |
| S90.862                                      | Insect bite (nonvenomous), left foot   | Diagnosis     | ICD-10-CM |
| S90.862A                                     | Insect bite (nonvenomous), left foot, initial encounter  | Diagnosis     | ICD-10-CM |
| S90.862D                                     | Insect bite (nonvenomous), left foot, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S90.862S                                     | Insect bite (nonvenomous), left foot, sequela  | Diagnosis     | ICD-10-CM |
| S90.869                                      | Insect bite (nonvenomous), unspecified foot  | Diagnosis     | ICD-10-CM |
| S90.869A                                     | Insect bite (nonvenomous), unspecified foot, initial encounter   | Diagnosis     | ICD-10-CM |
| S90.869D                                     | Insect bite (nonvenomous), unspecified foot, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S90.869S                                     | Insect bite (nonvenomous), unspecified foot, sequela   | Diagnosis     | ICD-10-CM |
| W57  | Bitten or stung by nonvenomous insect and other nonvenomous arthropods                                   | Diagnosis     | ICD-10-CM |
| W57.XXXA                                     | Bitten or stung by nonvenomous insect and other nonvenomous arthropods, initial encounter                | Diagnosis     | ICD-10-CM |
| W57.XXXD                                     | Bitten or stung by nonvenomous insect and other nonvenomous arthropods, subsequent encounter             | Diagnosis     | ICD-10-CM |
| W57.XXXS                                     | Bitten or stung by nonvenomous insect and other nonvenomous arthropods, sequela                          | Diagnosis     | ICD-10-CM |
| <b>Macroscopic Examination for Arthropod</b> |  |               |           |
| 87168  | Macroscopic examination; arthropod   | Procedure     | CPT-4     |
| <b>Lyme Disease</b>                          |  |               |           |
| A69.2  | Lyme disease   | Diagnosis     | ICD-10-CM |
| A69.20                                       | Lyme disease, unspecified  | Diagnosis     | ICD-10-CM |
| A69.21                                       | Meningitis due to Lyme disease   | Diagnosis     | ICD-10-CM |
| A69.22                                       | Other neurologic disorders in Lyme disease   | Diagnosis     | ICD-10-CM |
| A69.23                                       | Arthritis due to Lyme disease  | Diagnosis     | ICD-10-CM |
| A69.29                                       | Other conditions associated with Lyme disease  | Diagnosis     | ICD-10-CM |
| 86617  | Antibody; Borrelia burgdorferi (Lyme disease) confirmatory test (eg, Western Blot or immunoblot)         | Procedure     | CPT-4     |
| 86618  | Antibody; Borrelia burgdorferi (Lyme disease)  | Procedure     | CPT-4     |
| 87475  | Infectious agent detection by nucleic acid (DNA or RNA); Borrelia burgdorferi, direct probe technique    | Procedure     | CPT-4     |
| 87476  | Infectious agent detection by nucleic acid (DNA or RNA); Borrelia burgdorferi, amplified probe technique | Procedure     | CPT-4     |
| 87477  | Infectious agent detection by nucleic acid (DNA or RNA); Borrelia burgdorferi, quantification            | Procedure     | CPT-4     |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code                           | Description  | Code Category | Code Type |
|--------------------------------|--|---------------|-----------|
| <b>Other Tickborne Disease</b> |  |               |           |
| A68.1                          | Tick-borne relapsing fever   | Diagnosis     | ICD-10-CM |
| A77.0                          | Spotted fever due to Rickettsia rickettsii   | Diagnosis     | ICD-10-CM |
| A77.4                          | Ehrlichiosis   | Diagnosis     | ICD-10-CM |
| A77.40                         | Ehrlichiosis, unspecified  | Diagnosis     | ICD-10-CM |
| A77.41                         | Ehrlichiosis chafeensis [E. chafeensis]  | Diagnosis     | ICD-10-CM |
| A77.49                         | Other ehrlichiosis   | Diagnosis     | ICD-10-CM |
| A84.0                          | Far Eastern tick-borne encephalitis [Russian spring-summer encephalitis]   | Diagnosis     | ICD-10-CM |
| A84.1                          | Central European tick-borne encephalitis   | Diagnosis     | ICD-10-CM |
| A84.8                          | Other tick-borne viral encephalitis  | Diagnosis     | ICD-10-CM |
| A84.9                          | Tick-borne viral encephalitis, unspecified   | Diagnosis     | ICD-10-CM |
| B60.0                          | Babesiosis   | Diagnosis     | ICD-10-CM |
| 0043U                          | Tick-borne relapsing fever Borrelia group, antibody detection to 4 recombinant protein groups, by immunoblot, IgM  | Procedure     | CPT-4     |
| 0044U                          | Tick-borne relapsing fever Borrelia group, antibody detection to 4 recombinant protein groups, by immunoblot, IgG  | Procedure     | CPT-4     |
| <b>Any Obstetric Condition</b> |  |               |           |
| N84                            | Polyp of female genital tract  | Diagnosis     | ICD-10-CM |
| N84.0                          | Polyp of corpus uteri  | Diagnosis     | ICD-10-CM |
| N84.1                          | Polyp of cervix uteri  | Diagnosis     | ICD-10-CM |
| N84.8                          | Polyp of other parts of female genital tract   | Diagnosis     | ICD-10-CM |
| N84.9                          | Polyp of female genital tract, unspecified   | Diagnosis     | ICD-10-CM |
| N96                            | Recurrent pregnancy loss   | Diagnosis     | ICD-10-CM |
| O02.1                          | Missed abortion  | Diagnosis     | ICD-10-CM |
| O03                            | Spontaneous abortion   | Diagnosis     | ICD-10-CM |
| O03.4                          | Incomplete spontaneous abortion without complication   | Diagnosis     | ICD-10-CM |
| Z01.812                        | Encounter for preprocedural laboratory examination   | Diagnosis     | ICD-10-CM |
| Z31.430                        | Encounter of female for testing for genetic disease carrier status for procreative management                      | Diagnosis     | ICD-10-CM |
| Z31.83                         | Encounter for assisted reproductive fertility procedure cycle  | Diagnosis     | ICD-10-CM |
| Z32.00                         | Encounter for pregnancy test, result unknown   | Diagnosis     | ICD-10-CM |
| Z32.01                         | Encounter for pregnancy test, result positive  | Diagnosis     | ICD-10-CM |
| Z33.2                          | Encounter for elective termination of pregnancy  | Diagnosis     | ICD-10-CM |
| Z3A.01                         | Less than 8 weeks gestation of pregnancy   | Diagnosis     | ICD-10-CM |
| Z3A.08                         | 8 weeks gestation of pregnancy   | Diagnosis     | ICD-10-CM |
| 0058T                          | Cryopreservation; reproductive tissue, ovarian   | Procedure     | CPT-3     |
| 0059T                          | Cryopreservation; oocyte(s)  | Procedure     | CPT-3     |
| 00842                          | Anesthesia for intraperitoneal procedures in lower abdomen including laparoscopy; amniocentesis                    | Procedure     | CPT-4     |
| 00848                          | Anesthesia for intraperitoneal procedures in lower abdomen including laparoscopy; pelvic exenteration              | Procedure     | CPT-4     |
| 00850                          | Anesthesia for intraperitoneal procedures in lower abdomen including laparoscopy; cesarean section                 | Procedure     | CPT-4     |
| 00851                          | Anesthesia for intraperitoneal procedures in lower abdomen including laparoscopy; tubal ligation/transection       | Procedure     | CPT-4     |
| 00855                          | Anesthesia for intraperitoneal procedures in lower abdomen including laparoscopy; cesarean hysterectomy            | Procedure     | CPT-4     |
| 00944                          | Anesthesia for vaginal procedures (including biopsy of labia, vagina, cervix or endometrium); vaginal hysterectomy | Procedure     | CPT-4     |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type  |
|---------|---|---------------|------------|
| 00952   | Anesthesia for vaginal procedures (including biopsy of labia, vagina, cervix or endometrium); hysteroscopy and/or hysterosalpingography                   | Procedure     | CPT-4      |
| 01900   | Anesthesia for injection procedure for hysterosalpingography  | Procedure     | CPT-4      |
| 01962   | Anesthesia for urgent hysterectomy following delivery   | Procedure     | CPT-4      |
| 01963   | Anesthesia for cesarean hysterectomy without any labor analgesia/anesthesia care  | Procedure     | CPT-4      |
| 01969   | Anesthesia for cesarean hysterectomy following neuraxial labor analgesia/anesthesia (List separately in addition to code for primary procedure performed) | Procedure     | CPT-4      |
| 0336T   | Laparoscopy, surgical, ablation of uterine fibroid(s), including intraoperative ultrasound guidance and monitoring, radiofrequency                        | Procedure     | CPT-3      |
| 0357T   | Cryopreservation; immature oocyte(s)  | Procedure     | CPT-3      |
| 0U9900Z | Drainage of Uterus with Drainage Device, Open Approach  | Procedure     | ICD-10-PCS |
| 0U990ZZ | Drainage of Uterus, Open Approach   | Procedure     | ICD-10-PCS |
| 0U9940Z | Drainage of Uterus with Drainage Device, Percutaneous Endoscopic Approach   | Procedure     | ICD-10-PCS |
| 0U994ZZ | Drainage of Uterus, Percutaneous Endoscopic Approach  | Procedure     | ICD-10-PCS |
| 0U9970Z | Drainage of Uterus with Drainage Device, Via Natural or Artificial Opening  | Procedure     | ICD-10-PCS |
| 0U997ZZ | Drainage of Uterus, Via Natural or Artificial Opening   | Procedure     | ICD-10-PCS |
| 0U9980Z | Drainage of Uterus with Drainage Device, Via Natural or Artificial Opening Endoscopic   | Procedure     | ICD-10-PCS |
| 0U998ZZ | Drainage of Uterus, Via Natural or Artificial Opening Endoscopic  | Procedure     | ICD-10-PCS |
| 0UC90ZZ | Extirpation of Matter from Uterus, Open Approach  | Procedure     | ICD-10-PCS |
| 0UC93ZZ | Extirpation of Matter from Uterus, Percutaneous Approach  | Procedure     | ICD-10-PCS |
| 0UC94ZZ | Extirpation of Matter from Uterus, Percutaneous Endoscopic Approach   | Procedure     | ICD-10-PCS |
| 0UJD0ZZ | Inspection of Uterus and Cervix, Open Approach  | Procedure     | ICD-10-PCS |
| 0UJD4ZZ | Inspection of Uterus and Cervix, Percutaneous Endoscopic Approach   | Procedure     | ICD-10-PCS |
| 0UJD8ZZ | Inspection of Uterus and Cervix, Via Natural or Artificial Opening Endoscopic   | Procedure     | ICD-10-PCS |
| 0UPD00Z | Removal of Drainage Device from Uterus and Cervix, Open Approach  | Procedure     | ICD-10-PCS |
| 0UPD01Z | Removal of Radioactive Element from Uterus and Cervix, Open Approach  | Procedure     | ICD-10-PCS |
| 0UPD03Z | Removal of Infusion Device from Uterus and Cervix, Open Approach  | Procedure     | ICD-10-PCS |
| 0UPD07Z | Removal of Autologous Tissue Substitute from Uterus and Cervix, Open Approach   | Procedure     | ICD-10-PCS |
| 0UPD0DZ | Removal of Intraluminal Device from Uterus and Cervix, Open Approach  | Procedure     | ICD-10-PCS |
| 0UPD0HZ | Removal of Contraceptive Device from Uterus and Cervix, Open Approach   | Procedure     | ICD-10-PCS |
| 0UPD0JZ | Removal of Synthetic Substitute from Uterus and Cervix, Open Approach   | Procedure     | ICD-10-PCS |
| 0UPD0KZ | Removal of Nonautologous Tissue Substitute from Uterus and Cervix, Open Approach  | Procedure     | ICD-10-PCS |
| 0UPD0YZ | Removal of Other Device from Uterus and Cervix, Open Approach   | Procedure     | ICD-10-PCS |
| 0UPD30Z | Removal of Drainage Device from Uterus and Cervix, Percutaneous Approach  | Procedure     | ICD-10-PCS |
| 0UPD31Z | Removal of Radioactive Element from Uterus and Cervix, Percutaneous Approach  | Procedure     | ICD-10-PCS |
| 0UPD33Z | Removal of Infusion Device from Uterus and Cervix, Percutaneous Approach  | Procedure     | ICD-10-PCS |
| 0UPD37Z | Removal of Autologous Tissue Substitute from Uterus and Cervix, Percutaneous Approach   | Procedure     | ICD-10-PCS |
| 0UPD3DZ | Removal of Intraluminal Device from Uterus and Cervix, Percutaneous Approach  | Procedure     | ICD-10-PCS |
| 0UPD3HZ | Removal of Contraceptive Device from Uterus and Cervix, Percutaneous Approach   | Procedure     | ICD-10-PCS |
| 0UPD3JZ | Removal of Synthetic Substitute from Uterus and Cervix, Percutaneous Approach   | Procedure     | ICD-10-PCS |
| 0UPD3KZ | Removal of Nonautologous Tissue Substitute from Uterus and Cervix, Percutaneous Approach  | Procedure     | ICD-10-PCS |
| 0UPD3YZ | Removal of Other Device from Uterus and Cervix, Percutaneous Approach   | Procedure     | ICD-10-PCS |
| 0UPD40Z | Removal of Drainage Device from Uterus and Cervix, Percutaneous Endoscopic Approach   | Procedure     | ICD-10-PCS |
| 0UPD41Z | Removal of Radioactive Element from Uterus and Cervix, Percutaneous Endoscopic Approach   | Procedure     | ICD-10-PCS |
| 0UPD43Z | Removal of Infusion Device from Uterus and Cervix, Percutaneous Endoscopic Approach   | Procedure     | ICD-10-PCS |
| 0UPD47Z | Removal of Autologous Tissue Substitute from Uterus and Cervix, Percutaneous Endoscopic Approach  | Procedure     | ICD-10-PCS |
| 0UPD4DZ | Removal of Intraluminal Device from Uterus and Cervix, Percutaneous Endoscopic Approach   | Procedure     | ICD-10-PCS |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type  |
|---------|---|---------------|------------|
| 0UPD4HZ | Removal of Contraceptive Device from Uterus and Cervix, Percutaneous Endoscopic Approach                        | Procedure     | ICD-10-PCS |
| 0UPD4JZ | Removal of Synthetic Substitute from Uterus and Cervix, Percutaneous Endoscopic Approach                        | Procedure     | ICD-10-PCS |
| 0UPD4KZ | Removal of Nonautologous Tissue Substitute from Uterus and Cervix, Percutaneous Endoscopic Approach             | Procedure     | ICD-10-PCS |
| 0UPD4YZ | Removal of Other Device from Uterus and Cervix, Percutaneous Endoscopic Approach                                | Procedure     | ICD-10-PCS |
| 0UPD71Z | Removal of Radioactive Element from Uterus and Cervix, Via Natural or Artificial Opening                        | Procedure     | ICD-10-PCS |
| 0UPD77Z | Removal of Autologous Tissue Substitute from Uterus and Cervix, Via Natural or Artificial Opening               | Procedure     | ICD-10-PCS |
| 0UPD7JZ | Removal of Synthetic Substitute from Uterus and Cervix, Via Natural or Artificial Opening                       | Procedure     | ICD-10-PCS |
| 0UPD7KZ | Removal of Nonautologous Tissue Substitute from Uterus and Cervix, Via Natural or Artificial Opening            | Procedure     | ICD-10-PCS |
| 0UPD81Z | Removal of Radioactive Element from Uterus and Cervix, Via Natural or Artificial Opening Endoscopic             | Procedure     | ICD-10-PCS |
| 0UPD87Z | Removal of Autologous Tissue Substitute from Uterus and Cervix, Via Natural or Artificial Opening Endoscopic    | Procedure     | ICD-10-PCS |
| 0UPD8JZ | Removal of Synthetic Substitute from Uterus and Cervix, Via Natural or Artificial Opening Endoscopic            | Procedure     | ICD-10-PCS |
| 0UPD8KZ | Removal of Nonautologous Tissue Substitute from Uterus and Cervix, Via Natural or Artificial Opening Endoscopic | Procedure     | ICD-10-PCS |
| 0UT40ZZ | Resection of Uterine Supporting Structure, Open Approach  | Procedure     | ICD-10-PCS |
| 0UT44ZZ | Resection of Uterine Supporting Structure, Percutaneous Endoscopic Approach                                     | Procedure     | ICD-10-PCS |
| 0UT47ZZ | Resection of Uterine Supporting Structure, Via Natural or Artificial Opening                                    | Procedure     | ICD-10-PCS |
| 0UT48ZZ | Resection of Uterine Supporting Structure, Via Natural or Artificial Opening Endoscopic                         | Procedure     | ICD-10-PCS |
| 0UT90ZL | Resection of Uterus, Supracervical, Open Approach   | Procedure     | ICD-10-PCS |
| 0UT90ZZ | Resection of Uterus, Open Approach  | Procedure     | ICD-10-PCS |
| 0UT94ZL | Resection of Uterus, Supracervical, Percutaneous Endoscopic Approach  | Procedure     | ICD-10-PCS |
| 0UT94ZZ | Resection of Uterus, Percutaneous Endoscopic Approach   | Procedure     | ICD-10-PCS |
| 0UT97ZL | Resection of Uterus, Supracervical, Via Natural or Artificial Opening   | Procedure     | ICD-10-PCS |
| 0UT97ZZ | Resection of Uterus, Via Natural or Artificial Opening  | Procedure     | ICD-10-PCS |
| 0UT98ZL | Resection of Uterus, Supracervical, Via Natural or Artificial Opening Endoscopic                                | Procedure     | ICD-10-PCS |
| 0UT98ZZ | Resection of Uterus, Via Natural or Artificial Opening Endoscopic   | Procedure     | ICD-10-PCS |
| 0UT9FZL | Resection of Uterus, Supracervical, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance   | Procedure     | ICD-10-PCS |
| 0UT9FZZ | Resection of Uterus, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance                  | Procedure     | ICD-10-PCS |
| 0UTC0ZZ | Resection of Cervix, Open Approach  | Procedure     | ICD-10-PCS |
| 0UTC4ZZ | Resection of Cervix, Percutaneous Endoscopic Approach   | Procedure     | ICD-10-PCS |
| 0UTC7ZZ | Resection of Cervix, Via Natural or Artificial Opening  | Procedure     | ICD-10-PCS |
| 0UTC8ZZ | Resection of Cervix, Via Natural or Artificial Opening Endoscopic   | Procedure     | ICD-10-PCS |
| 0UWD00Z | Revision of Drainage Device in Uterus and Cervix, Open Approach   | Procedure     | ICD-10-PCS |
| 0UWD01Z | Revision of Radioactive Element in Uterus and Cervix, Open Approach   | Procedure     | ICD-10-PCS |
| 0UWD03Z | Revision of Infusion Device in Uterus and Cervix, Open Approach   | Procedure     | ICD-10-PCS |
| 0UWD07Z | Revision of Autologous Tissue Substitute in Uterus and Cervix, Open Approach                                    | Procedure     | ICD-10-PCS |
| 0UWD0DZ | Revision of Intraluminal Device in Uterus and Cervix, Open Approach   | Procedure     | ICD-10-PCS |
| 0UWD0HZ | Revision of Contraceptive Device in Uterus and Cervix, Open Approach  | Procedure     | ICD-10-PCS |
| 0UWD0JZ | Revision of Synthetic Substitute in Uterus and Cervix, Open Approach  | Procedure     | ICD-10-PCS |
| 0UWD0KZ | Revision of Nonautologous Tissue Substitute in Uterus and Cervix, Open Approach                                 | Procedure     | ICD-10-PCS |
| 0UWD0YZ | Revision of Other Device in Uterus and Cervix, Open Approach  | Procedure     | ICD-10-PCS |
| 0UWD30Z | Revision of Drainage Device in Uterus and Cervix, Percutaneous Approach   | Procedure     | ICD-10-PCS |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type  |
|---------|--|---------------|------------|
| 0UWD31Z | Revision of Radioactive Element in Uterus and Cervix, Percutaneous Approach                                    | Procedure     | ICD-10-PCS |
| 0UWD33Z | Revision of Infusion Device in Uterus and Cervix, Percutaneous Approach  | Procedure     | ICD-10-PCS |
| 0UWD37Z | Revision of Autologous Tissue Substitute in Uterus and Cervix, Percutaneous Approach                           | Procedure     | ICD-10-PCS |
| 0UWD3DZ | Revision of Intraluminal Device in Uterus and Cervix, Percutaneous Approach                                    | Procedure     | ICD-10-PCS |
| 0UWD3HZ | Revision of Contraceptive Device in Uterus and Cervix, Percutaneous Approach                                   | Procedure     | ICD-10-PCS |
| 0UWD3JZ | Revision of Synthetic Substitute in Uterus and Cervix, Percutaneous Approach                                   | Procedure     | ICD-10-PCS |
| 0UWD3KZ | Revision of Nonautologous Tissue Substitute in Uterus and Cervix, Percutaneous Approach                        | Procedure     | ICD-10-PCS |
| 0UWD3YZ | Revision of Other Device in Uterus and Cervix, Percutaneous Approach   | Procedure     | ICD-10-PCS |
| 0UWD40Z | Revision of Drainage Device in Uterus and Cervix, Percutaneous Endoscopic Approach                             | Procedure     | ICD-10-PCS |
| 0UWD41Z | Revision of Radioactive Element in Uterus and Cervix, Percutaneous Endoscopic Approach                         | Procedure     | ICD-10-PCS |
| 0UWD43Z | Revision of Infusion Device in Uterus and Cervix, Percutaneous Endoscopic Approach                             | Procedure     | ICD-10-PCS |
| 0UWD47Z | Revision of Autologous Tissue Substitute in Uterus and Cervix, Percutaneous Endoscopic Approach                | Procedure     | ICD-10-PCS |
| 0UWD4DZ | Revision of Intraluminal Device in Uterus and Cervix, Percutaneous Endoscopic Approach                         | Procedure     | ICD-10-PCS |
| 0UWD4HZ | Revision of Contraceptive Device in Uterus and Cervix, Percutaneous Endoscopic Approach                        | Procedure     | ICD-10-PCS |
| 0UWD4JZ | Revision of Synthetic Substitute in Uterus and Cervix, Percutaneous Endoscopic Approach                        | Procedure     | ICD-10-PCS |
| 0UWD4KZ | Revision of Nonautologous Tissue Substitute in Uterus and Cervix, Percutaneous Endoscopic Approach             | Procedure     | ICD-10-PCS |
| 0UWD4YZ | Revision of Other Device in Uterus and Cervix, Percutaneous Endoscopic Approach                                | Procedure     | ICD-10-PCS |
| 0UWD70Z | Revision of Drainage Device in Uterus and Cervix, Via Natural or Artificial Opening                            | Procedure     | ICD-10-PCS |
| 0UWD71Z | Revision of Radioactive Element in Uterus and Cervix, Via Natural or Artificial Opening                        | Procedure     | ICD-10-PCS |
| 0UWD73Z | Revision of Infusion Device in Uterus and Cervix, Via Natural or Artificial Opening                            | Procedure     | ICD-10-PCS |
| 0UWD77Z | Revision of Autologous Tissue Substitute in Uterus and Cervix, Via Natural or Artificial Opening               | Procedure     | ICD-10-PCS |
| 0UWD7DZ | Revision of Intraluminal Device in Uterus and Cervix, Via Natural or Artificial Opening                        | Procedure     | ICD-10-PCS |
| 0UWD7HZ | Revision of Contraceptive Device in Uterus and Cervix, Via Natural or Artificial Opening                       | Procedure     | ICD-10-PCS |
| 0UWD7JZ | Revision of Synthetic Substitute in Uterus and Cervix, Via Natural or Artificial Opening                       | Procedure     | ICD-10-PCS |
| 0UWD7KZ | Revision of Nonautologous Tissue Substitute in Uterus and Cervix, Via Natural or Artificial Opening            | Procedure     | ICD-10-PCS |
| 0UWD7YZ | Revision of Other Device in Uterus and Cervix, Via Natural or Artificial Opening                               | Procedure     | ICD-10-PCS |
| 0UWD80Z | Revision of Drainage Device in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic                 | Procedure     | ICD-10-PCS |
| 0UWD81Z | Revision of Radioactive Element in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic             | Procedure     | ICD-10-PCS |
| 0UWD83Z | Revision of Infusion Device in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic                 | Procedure     | ICD-10-PCS |
| 0UWD87Z | Revision of Autologous Tissue Substitute in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic    | Procedure     | ICD-10-PCS |
| 0UWD8DZ | Revision of Intraluminal Device in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic             | Procedure     | ICD-10-PCS |
| 0UWD8HZ | Revision of Contraceptive Device in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic            | Procedure     | ICD-10-PCS |
| 0UWD8JZ | Revision of Synthetic Substitute in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic            | Procedure     | ICD-10-PCS |
| 0UWD8KZ | Revision of Nonautologous Tissue Substitute in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic | Procedure     | ICD-10-PCS |
| 0UWD8YZ | Revision of Other Device in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic                    | Procedure     | ICD-10-PCS |
| 10A00ZZ | Abortion of Products of Conception, Open Approach  | Procedure     | ICD-10-PCS |
| 10A03ZZ | Abortion of Products of Conception, Percutaneous Approach  | Procedure     | ICD-10-PCS |
| 10A04ZZ | Abortion of Products of Conception, Percutaneous Endoscopic Approach   | Procedure     | ICD-10-PCS |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code  | Description  | Code Category | Code Type |
|-------|--|---------------|-----------|
| 45126 | Pelvic exenteration for colorectal malignancy, with proctectomy (with or without colostomy), with removal of bladder and ureteral transplantations, and/or hysterectomy, or cervicectomy, with or without removal of tube(s), with or without removal of ovary(s), or any combination thereof                                      | Procedure     | CPT-4     |
| 49220 | Staging laparotomy for Hodgkins disease or lymphoma (includes splenectomy, needle or open biopsies of both liver lobes, possibly also removal of abdominal nodes, abdominal node and/or bone marrow biopsies, ovarian repositioning)   | Procedure     | CPT-4     |
| 49322 | Laparoscopy, surgical; with aspiration of cavity or cyst (eg, ovarian cyst) (single or multiple)   | Procedure     | CPT-4     |
| 50722 | Ureterolysis for ovarian vein syndrome   | Procedure     | CPT-4     |
| 51597 | Pelvic exenteration, complete, for vesical, prostatic or urethral malignancy, with removal of bladder and ureteral transplantations, with or without hysterectomy and/or abdominoperineal resection of rectum and colon and colostomy, or any combination thereof  | Procedure     | CPT-4     |
| 51925 | Closure of vesicouterine fistula; with hysterectomy  | Procedure     | CPT-4     |
| 56350 | HYSTEROSCOPY DX (SEPART PROC)  | Procedure     | CPT-4     |
| 56351 | HYSTEROSCOPY SURG; W/SAMPL ENDOMETRIUM W/WO D&C  | Procedure     | CPT-4     |
| 56352 | HYSTEROSCOPY SURG; W/LYSIS INTRAUTERINE ADHESION   | Procedure     | CPT-4     |
| 56353 | HYSTEROSCOPY SURG; W/DIVIS/RESECT SEPTUM   | Procedure     | CPT-4     |
| 56354 | HYSTEROSCOPY SURG; W/REMOV LEIOMYOMATA   | Procedure     | CPT-4     |
| 56355 | HYSTEROSCOPY SURG; W/REMOV IMPACTED F B  | Procedure     | CPT-4     |
| 56356 | HYSTEROSCOPY SURG; W/ENDOMETRIAL ABLATION  | Procedure     | CPT-4     |
| 56399 | UNLISTED PROC-LAP/HYSTEROSCOPY   | Procedure     | CPT-4     |
| 57425 | Laparoscopy, surgical, colpopexy (suspension of vaginal apex)  | Procedure     | CPT-4     |
| 58150 | Total abdominal hysterectomy (corpus and cervix), with or without removal of tube(s), with or without removal of ovary(s);   | Procedure     | CPT-4     |
| 58152 | Total abdominal hysterectomy (corpus and cervix), with or without removal of tube(s), with or without removal of ovary(s); with colpo-urethrocystopexy (eg, Marshall-Marchetti-Krantz, Burch)  | Procedure     | CPT-4     |
| 58180 | Supracervical abdominal hysterectomy (subtotal hysterectomy), with or without removal of tube(s), with or without removal of ovary(s)  | Procedure     | CPT-4     |
| 58200 | Total abdominal hysterectomy, including partial vaginectomy, with para-aortic and pelvic lymph node sampling, with or without removal of tube(s), with or without removal of ovary(s)  | Procedure     | CPT-4     |
| 58205 | Total Hysterectomy, Extended, Corpus Cancer, Including Partial   | Procedure     | CPT-4     |
| 58210 | Radical abdominal hysterectomy, with bilateral total pelvic lymphadenectomy and para-aortic lymph node sampling (biopsy), with or without removal of tube(s), with or without removal of ovary(s)  | Procedure     | CPT-4     |
| 58240 | Pelvic exenteration for gynecologic malignancy, with total abdominal hysterectomy or cervicectomy, with or without removal of tube(s), with or without removal of ovary(s), with removal of bladder and ureteral transplantations, and/or abdominoperineal resection of rectum and colon and colostomy, or any combination thereof | Procedure     | CPT-4     |
| 58260 | Vaginal hysterectomy, for uterus 250 g or less;  | Procedure     | CPT-4     |
| 58262 | Vaginal hysterectomy, for uterus 250 g or less; with removal of tube(s), and/or ovary(s)   | Procedure     | CPT-4     |
| 58263 | Vaginal hysterectomy, for uterus 250 g or less; with removal of tube(s), and/or ovary(s), with repair of enterocele  | Procedure     | CPT-4     |
| 58265 | Vaginal Hysterectomy With Plastic Repair Of Vagina, Anterior   | Procedure     | CPT-4     |
| 58267 | Vaginal hysterectomy, for uterus 250 g or less; with colpo-urethrocystopexy (Marshall-Marchetti-Krantz type, Pereyra type) with or without endoscopic control  | Procedure     | CPT-4     |
| 58270 | Vaginal hysterectomy, for uterus 250 g or less; with repair of enterocele  | Procedure     | CPT-4     |
| 58275 | Vaginal hysterectomy, with total or partial vaginectomy;   | Procedure     | CPT-4     |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code  | Description  | Code Category | Code Type |
|-------|--|---------------|-----------|
| 58280 | Vaginal hysterectomy, with total or partial vaginectomy; with repair of enterocele   | Procedure     | CPT-4     |
| 58285 | Vaginal hysterectomy, radical (Schauta type operation)   | Procedure     | CPT-4     |
| 58290 | Vaginal hysterectomy, for uterus greater than 250 g;   | Procedure     | CPT-4     |
| 58291 | Vaginal hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s)   | Procedure     | CPT-4     |
| 58292 | Vaginal hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s), with repair of enterocele  | Procedure     | CPT-4     |
| 58293 | Vaginal hysterectomy, for uterus greater than 250 g; with colpo-urethrocystopexy (Marshall-Marchetti-Krantz type, Pereyra type) with or without endoscopic control                             | Procedure     | CPT-4     |
| 58294 | Vaginal hysterectomy, for uterus greater than 250 g; with repair of enterocele   | Procedure     | CPT-4     |
| 58321 | Artificial insemination; intra-cervical  | Procedure     | CPT-4     |
| 58322 | Artificial insemination; intra-uterine   | Procedure     | CPT-4     |
| 58340 | Catheterization and introduction of saline or contrast material for saline infusion sonohysterography (SIS) or hysterosalpingography   | Procedure     | CPT-4     |
| 58345 | Transcervical introduction of fallopian tube catheter for diagnosis and/or re-establishing patency (any method), with or without hysterosalpingography   | Procedure     | CPT-4     |
| 58350 | Chromotubation of oviduct, including materials   | Procedure     | CPT-4     |
| 58353 | Endometrial ablation, thermal, without hysteroscopic guidance  | Procedure     | CPT-4     |
| 58520 | Hysterorrhaphy, repair of ruptured uterus (nonobstetrical)   | Procedure     | CPT-4     |
| 58540 | Hysteroplasty, repair of uterine anomaly (Strassman type)  | Procedure     | CPT-4     |
| 58541 | Laparoscopy, surgical, supracervical hysterectomy, for uterus 250 g or less;   | Procedure     | CPT-4     |
| 58542 | Laparoscopy, surgical, supracervical hysterectomy, for uterus 250 g or less; with removal of tube(s) and/or ovary(s)   | Procedure     | CPT-4     |
| 58543 | Laparoscopy, surgical, supracervical hysterectomy, for uterus greater than 250 g;  | Procedure     | CPT-4     |
| 58544 | Laparoscopy, surgical, supracervical hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s)  | Procedure     | CPT-4     |
| 58545 | Laparoscopy, surgical, myomectomy, excision; 1 to 4 intramural myomas with total weight of 250 g or less and/or removal of surface myomas  | Procedure     | CPT-4     |
| 58546 | Laparoscopy, surgical, myomectomy, excision; 5 or more intramural myomas and/or intramural myomas with total weight greater than 250 g   | Procedure     | CPT-4     |
| 58548 | Laparoscopy, surgical, with radical hysterectomy, with bilateral total pelvic lymphadenectomy and para-aortic lymph node sampling (biopsy), with removal of tube(s) and ovary(s), if performed | Procedure     | CPT-4     |
| 58550 | Laparoscopy, surgical, with vaginal hysterectomy, for uterus 250 g or less;  | Procedure     | CPT-4     |
| 58551 | Laparoscopy, surgical; with removal of leiomyomata (single or multiple)  | Procedure     | CPT-4     |
| 58552 | Laparoscopy, surgical, with vaginal hysterectomy, for uterus 250 g or less; with removal of tube(s) and/or ovary(s)  | Procedure     | CPT-4     |
| 58553 | Laparoscopy, surgical, with vaginal hysterectomy, for uterus greater than 250 g;   | Procedure     | CPT-4     |
| 58554 | Laparoscopy, surgical, with vaginal hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s)   | Procedure     | CPT-4     |
| 58555 | Hysteroscopy, diagnostic (separate procedure)  | Procedure     | CPT-4     |
| 58558 | Hysteroscopy, surgical; with sampling (biopsy) of endometrium and/or polypectomy, with or without D & C  | Procedure     | CPT-4     |
| 58559 | Hysteroscopy, surgical; with lysis of intrauterine adhesions (any method)  | Procedure     | CPT-4     |
| 58560 | Hysteroscopy, surgical; with division or resection of intrauterine septum (any method)   | Procedure     | CPT-4     |
| 58561 | Hysteroscopy, surgical; with removal of leiomyomata  | Procedure     | CPT-4     |
| 58562 | Hysteroscopy, surgical; with removal of impacted foreign body  | Procedure     | CPT-4     |
| 58563 | Hysteroscopy, surgical; with endometrial ablation (eg, endometrial resection, electrosurgical ablation, thermoablation)  | Procedure     | CPT-4     |
| 58565 | Hysteroscopy, surgical; with bilateral fallopian tube cannulation to induce occlusion by placement of permanent implants   | Procedure     | CPT-4     |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code  | Description   | Code Category | Code Type |
|-------|---|---------------|-----------|
| 58570 | Laparoscopy, surgical, with total hysterectomy, for uterus 250 g or less;   | Procedure     | CPT-4     |
| 58571 | Laparoscopy, surgical, with total hysterectomy, for uterus 250 g or less; with removal of tube(s) and/or ovary(s)   | Procedure     | CPT-4     |
| 58572 | Laparoscopy, surgical, with total hysterectomy, for uterus greater than 250 g;  | Procedure     | CPT-4     |
| 58573 | Laparoscopy, surgical, with total hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s)  | Procedure     | CPT-4     |
| 58575 | Laparoscopy, surgical, total hysterectomy for resection of malignancy (tumor debulking), with omentectomy including salpingo-oophorectomy, unilateral or bilateral, when performed                        | Procedure     | CPT-4     |
| 58578 | Unlisted laparoscopy procedure, uterus  | Procedure     | CPT-4     |
| 58579 | Unlisted hysteroscopy procedure, uterus   | Procedure     | CPT-4     |
| 58600 | Ligation or transection of fallopian tube(s), abdominal or vaginal approach, unilateral or bilateral  | Procedure     | CPT-4     |
| 58605 | Ligation or transection of fallopian tube(s), abdominal or vaginal approach, postpartum, unilateral or bilateral, during same hospitalization (separate procedure)  | Procedure     | CPT-4     |
| 58611 | Ligation or transection of fallopian tube(s) when done at the time of cesarean delivery or intra-abdominal surgery (not a separate procedure) (List separately in addition to code for primary procedure) | Procedure     | CPT-4     |
| 58615 | Occlusion of fallopian tube(s) by device (eg, band, clip, Falope ring) vaginal or suprapubic approach   | Procedure     | CPT-4     |
| 58660 | Laparoscopy, surgical; with lysis of adhesions (salpingolysis, ovariolysis) (separate procedure)  | Procedure     | CPT-4     |
| 58661 | Laparoscopy, surgical; with removal of adnexal structures (partial or total oophorectomy and/or salpingectomy)  | Procedure     | CPT-4     |
| 58662 | Laparoscopy, surgical; with fulguration or excision of lesions of the ovary, pelvic viscera, or peritoneal surface by any method  | Procedure     | CPT-4     |
| 58670 | Laparoscopy, surgical; with fulguration of oviducts (with or without transection)   | Procedure     | CPT-4     |
| 58671 | Laparoscopy, surgical; with occlusion of oviducts by device (eg, band, clip, or Falope ring)  | Procedure     | CPT-4     |
| 58672 | Laparoscopy, surgical; with fimbrioplasty   | Procedure     | CPT-4     |
| 58673 | Laparoscopy, surgical; with salpingostomy (salpingoneostomy)  | Procedure     | CPT-4     |
| 58674 | Laparoscopy, surgical, ablation of uterine fibroid(s) including intraoperative ultrasound guidance and monitoring, radiofrequency   | Procedure     | CPT-4     |
| 58679 | Unlisted laparoscopy procedure, oviduct, ovary  | Procedure     | CPT-4     |
| 58700 | Salpingectomy, complete or partial, unilateral or bilateral (separate procedure)  | Procedure     | CPT-4     |
| 58720 | Salpingo-oophorectomy, complete or partial, unilateral or bilateral (separate procedure)  | Procedure     | CPT-4     |
| 58740 | Lysis of adhesions (salpingolysis, ovariolysis)   | Procedure     | CPT-4     |
| 58750 | Tubotubal anastomosis   | Procedure     | CPT-4     |
| 58752 | Tubouterine implantation  | Procedure     | CPT-4     |
| 58760 | Fimbrioplasty   | Procedure     | CPT-4     |
| 58770 | Salpingostomy (salpingoneostomy)  | Procedure     | CPT-4     |
| 58800 | Drainage of ovarian cyst(s), unilateral or bilateral (separate procedure); vaginal approach   | Procedure     | CPT-4     |
| 58805 | Drainage of ovarian cyst(s), unilateral or bilateral (separate procedure); abdominal approach   | Procedure     | CPT-4     |
| 58820 | Drainage of ovarian abscess; vaginal approach, open   | Procedure     | CPT-4     |
| 58822 | Drainage of ovarian abscess; abdominal approach   | Procedure     | CPT-4     |
| 58823 | Drainage of pelvic abscess, transvaginal or transrectal approach, percutaneous (eg, ovarian, pericolic)   | Procedure     | CPT-4     |
| 58825 | Transposition, ovary(s)   | Procedure     | CPT-4     |
| 58900 | Biopsy of ovary, unilateral or bilateral (separate procedure)   | Procedure     | CPT-4     |
| 58920 | Wedge resection or bisection of ovary, unilateral or bilateral  | Procedure     | CPT-4     |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code  | Description   | Code Category | Code Type |
|-------|---|---------------|-----------|
| 58925 | Ovarian cystectomy, unilateral or bilateral   | Procedure     | CPT-4     |
| 58940 | Oophorectomy, partial or total, unilateral or bilateral;  | Procedure     | CPT-4     |
| 58943 | Oophorectomy, partial or total, unilateral or bilateral; for ovarian, tubal or primary peritoneal malignancy, with para-aortic and pelvic lymph node biopsies, peritoneal washings, peritoneal biopsies, diaphragmatic assessments, with or without salpingectomy(s), with or without omentectomy | Procedure     | CPT-4     |
| 58950 | Resection (initial) of ovarian, tubal or primary peritoneal malignancy with bilateral salpingo-oophorectomy and omentectomy;  | Procedure     | CPT-4     |
| 58951 | Resection (initial) of ovarian, tubal or primary peritoneal malignancy with bilateral salpingo-oophorectomy and omentectomy; with total abdominal hysterectomy, pelvic and limited para-aortic lymphadenectomy  | Procedure     | CPT-4     |
| 58952 | Resection (initial) of ovarian, tubal or primary peritoneal malignancy with bilateral salpingo-oophorectomy and omentectomy; with radical dissection for debulking (ie, radical excision or destruction, intra-abdominal or retroperitoneal tumors)   | Procedure     | CPT-4     |
| 58953 | Bilateral salpingo-oophorectomy with omentectomy, total abdominal hysterectomy and radical dissection for debulking;  | Procedure     | CPT-4     |
| 58954 | Bilateral salpingo-oophorectomy with omentectomy, total abdominal hysterectomy and radical dissection for debulking; with pelvic lymphadenectomy and limited para-aortic lymphadenectomy  | Procedure     | CPT-4     |
| 58956 | Bilateral salpingo-oophorectomy with total omentectomy, total abdominal hysterectomy for malignancy   | Procedure     | CPT-4     |
| 58957 | Resection (tumor debulking) of recurrent ovarian, tubal, primary peritoneal, uterine malignancy (intra-abdominal, retroperitoneal tumors), with omentectomy, if performed;  | Procedure     | CPT-4     |
| 58958 | Resection (tumor debulking) of recurrent ovarian, tubal, primary peritoneal, uterine malignancy (intra-abdominal, retroperitoneal tumors), with omentectomy, if performed; with pelvic lymphadenectomy and limited para-aortic lymphadenectomy  | Procedure     | CPT-4     |
| 58960 | Laparotomy, for staging or restaging of ovarian, tubal, or primary peritoneal malignancy (second look), with or without omentectomy, peritoneal washing, biopsy of abdominal and pelvic peritoneum, diaphragmatic assessment with pelvic and limited para-aortic lymphadenectomy                  | Procedure     | CPT-4     |
| 58970 | Follicle puncture for oocyte retrieval, any method  | Procedure     | CPT-4     |
| 58972 | CULTURE & FERTILIZATION OOCYTE  | Procedure     | CPT-4     |
| 58974 | Embryo transfer, intrauterine   | Procedure     | CPT-4     |
| 58976 | Gamete, zygote, or embryo intrafallopian transfer, any method   | Procedure     | CPT-4     |
| 58982 | Laparoscopy, Surgical; With Fulguration Of Oviducts (with Or Without Transection)   | Procedure     | CPT-4     |
| 58983 | Laparoscopy, Surgical; With Occlusion Of Oviducts By Device (eg, Band, Clip, Or Falope Ring)  | Procedure     | CPT-4     |
| 58984 | Laparoscopy, Surgical; With Fulguration Or Excision Of Lesions Of The Ovary, Pelvic Viscera, Or Peritoneal Surface By Any Method  | Procedure     | CPT-4     |
| 58985 | Laparoscopy, Surgical; With Lysis Of Adhesions  | Procedure     | CPT-4     |
| 58986 | Laparoscopy, Surgical; With Biopsy (single Or Multiple)   | Procedure     | CPT-4     |
| 58987 | Laparoscopy, Surgical; With Aspiration (single Or Multiple)   | Procedure     | CPT-4     |
| 58988 | Laparoscopy, Surgical; With Removal Of Adnexal Structures (partial Or Total Oophorectomy And/or Salpingectomy)  | Procedure     | CPT-4     |
| 58990 | Hysteroscopy; Diagnostic  | Procedure     | CPT-4     |
| 58992 | Hysteroscopy; With Lysis Of Intrauterine Adhesions Or Resection Of Intrauterine Septum (any Method)   | Procedure     | CPT-4     |
| 58994 | Hysteroscopy; With Removal Of Submucous Leiomyomata (any Method)  | Procedure     | CPT-4     |
| 58995 | Hysteroscopy  | Procedure     | CPT-4     |
| 58996 | Hysteroscopy; With Endometrial Ablation (any Method)  | Procedure     | CPT-4     |
| 59100 | Hysterotomy, abdominal (eg, for hydatidiform mole, abortion)  | Procedure     | CPT-4     |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type  |
|---------|---|---------------|------------|
| 59101   | Hysterotomy, Abdominal, For Removal Of Hydatidiform Mole  | Procedure     | CPT-4      |
| 59105   | Hysterotomy, Abdominal, For Legal Abortion  | Procedure     | CPT-4      |
| 59106   | Hysterotomy, Abdominal, For Legal Abortion  | Procedure     | CPT-4      |
| 59120   | Surgical treatment of ectopic pregnancy; tubal or ovarian, requiring salpingectomy and/or oophorectomy, abdominal or vaginal approach   | Procedure     | CPT-4      |
| 59121   | Surgical treatment of ectopic pregnancy; tubal or ovarian, without salpingectomy and/or oophorectomy  | Procedure     | CPT-4      |
| 59130   | Surgical treatment of ectopic pregnancy; abdominal pregnancy  | Procedure     | CPT-4      |
| 59135   | Surgical treatment of ectopic pregnancy; interstitial, uterine pregnancy requiring total hysterectomy   | Procedure     | CPT-4      |
| 59136   | Surgical treatment of ectopic pregnancy; interstitial, uterine pregnancy with partial resection of uterus   | Procedure     | CPT-4      |
| 59140   | Surgical treatment of ectopic pregnancy; cervical, with evacuation  | Procedure     | CPT-4      |
| 59150   | Laparoscopic treatment of ectopic pregnancy; without salpingectomy and/or oophorectomy  | Procedure     | CPT-4      |
| 59151   | Laparoscopic treatment of ectopic pregnancy; with salpingectomy and/or oophorectomy   | Procedure     | CPT-4      |
| 59350   | Hysterorrhaphy of ruptured uterus   | Procedure     | CPT-4      |
| 59351   | Hysterorrhaphy Of Ruptured Uterus   | Procedure     | CPT-4      |
| 59525   | Subtotal or total hysterectomy after cesarean delivery (List separately in addition to code for primary procedure)  | Procedure     | CPT-4      |
| 59560   | Cesarean Section With Hysterectomy, Subtotal, Including   | Procedure     | CPT-4      |
| 59561   | Cesarean Section With Hysterectomy, Subtotal, Including   | Procedure     | CPT-4      |
| 59580   | Cesarean Section With Hysterectomy, Total, Including  | Procedure     | CPT-4      |
| 59581   | Cesarean Section With Hysterectomy, Total, Including  | Procedure     | CPT-4      |
| 59852   | Induced abortion, by 1 or more intra-amniotic injections (amniocentesis-injections), including hospital admission and visits, delivery of fetus and secundines; with hysterotomy (failed intra-amniotic injection)                                  | Procedure     | CPT-4      |
| 59857   | Induced abortion, by 1 or more vaginal suppositories (eg, prostaglandin) with or without cervical dilation (eg, laminaria), including hospital admission and visits, delivery of fetus and secundines; with hysterotomy (failed medical evacuation) | Procedure     | CPT-4      |
| 59898   | Unlisted laparoscopy procedure, maternity care and delivery   | Procedure     | CPT-4      |
| 74740   | Hysterosalpingography, radiological supervision and interpretation  | Procedure     | CPT-4      |
| 74741   | Hysterosalpingography; Complete Procedure   | Procedure     | CPT-4      |
| 76831   | Saline infusion sonohysterography (SIS), including color flow Doppler, when performed   | Procedure     | CPT-4      |
| 89250   | Culture of oocyte(s)/embryo(s), less than 4 days;   | Procedure     | CPT-4      |
| 89251   | Culture of oocyte(s)/embryo(s), less than 4 days; with co-culture of oocyte(s)/embryos  | Procedure     | CPT-4      |
| 89252   | Assisted oocyte fertilization, microtechnique (any method)  | Procedure     | CPT-4      |
| 89253   | Assisted embryo hatching, microtechniques (any method)  | Procedure     | CPT-4      |
| 89254   | Oocyte identification from follicular fluid   | Procedure     | CPT-4      |
| 89255   | Preparation of embryo for transfer (any method)   | Procedure     | CPT-4      |
| 89268   | Insemination of oocytes   | Procedure     | CPT-4      |
| 89272   | Extended culture of oocyte(s)/embryo(s), 4-7 days   | Procedure     | CPT-4      |
| 89280   | Assisted oocyte fertilization, microtechnique; less than or equal to 10 oocytes   | Procedure     | CPT-4      |
| 89281   | Assisted oocyte fertilization, microtechnique; greater than 10 oocytes  | Procedure     | CPT-4      |
| 89290   | Biopsy, oocyte polar body or embryo blastomere, microtechnique (for pre-implantation genetic diagnosis); less than or equal to 5 embryos  | Procedure     | CPT-4      |
| 89291   | Biopsy, oocyte polar body or embryo blastomere, microtechnique (for pre-implantation genetic diagnosis); greater than 5 embryos   | Procedure     | CPT-4      |
| BU02YZZ | Plain Radiography of Bilateral Fallopian Tubes using Other Contrast   | Procedure     | ICD-10-PCS |
| BU060ZZ | Plain Radiography of Uterus using High Osmolar Contrast   | Procedure     | ICD-10-PCS |
| BU061ZZ | Plain Radiography of Uterus using Low Osmolar Contrast  | Procedure     | ICD-10-PCS |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code                              | Description  | Code Category | Code Type  |
|-----------------------------------|--|---------------|------------|
| BU06YZZ                           | Plain Radiography of Uterus using Other Contrast   | Procedure     | ICD-10-PCS |
| BU08YZZ                           | Plain Radiography of Uterus and Fallopian Tubes using Other Contrast   | Procedure     | ICD-10-PCS |
| BU12YZZ                           | Fluoroscopy of Bilateral Fallopian Tubes using Other Contrast  | Procedure     | ICD-10-PCS |
| BU160ZZ                           | Fluoroscopy of Uterus using High Osmolar Contrast  | Procedure     | ICD-10-PCS |
| BU161ZZ                           | Fluoroscopy of Uterus using Low Osmolar Contrast   | Procedure     | ICD-10-PCS |
| BU16YZZ                           | Fluoroscopy of Uterus using Other Contrast   | Procedure     | ICD-10-PCS |
| BU16ZZZ                           | Fluoroscopy of Uterus  | Procedure     | ICD-10-PCS |
| BU18YZZ                           | Fluoroscopy of Uterus and Fallopian Tubes using Other Contrast   | Procedure     | ICD-10-PCS |
| G0331                             | PET imaging restaging ovarian  | Procedure     | HCPCS      |
| G9823                             | Endometrial sampling or hysteroscopy with biopsy and results documented  | Procedure     | HCPCS      |
| G9824                             | Endometrial sampling or hysteroscopy with biopsy and results not documented  | Procedure     | HCPCS      |
| S2078                             | Laparoscopic supracervical hysterectomy (subtotal hysterectomy), with or without removal of tube(s), with or without removal of ovary(s)   | Procedure     | HCPCS      |
| S2255                             | Hysteroscopy, surgical; with occlusion of oviducts bilaterally by micro-inserts for permanent sterilization  | Procedure     | HCPCS      |
| S4011                             | In vitro fertilization; including but not limited to identification and incubation of mature oocytes, fertilization with sperm, incubation of embryo(s), and subsequent visualization for determination of development | Procedure     | HCPCS      |
| S4013                             | Complete cycle, gamete intrafallopian transfer (GIFT), case rate   | Procedure     | HCPCS      |
| S4014                             | Complete cycle, zygote intrafallopian transfer (ZIFT), case rate   | Procedure     | HCPCS      |
| S4015                             | Complete in vitro fertilization cycle, not otherwise specified, case rate  | Procedure     | HCPCS      |
| S4016                             | Frozen in vitro fertilization cycle, case rate   | Procedure     | HCPCS      |
| S4022                             | Assisted oocyte fertilization, case rate   | Procedure     | HCPCS      |
| S4023                             | Donor egg cycle, incomplete, case rate   | Procedure     | HCPCS      |
| S4025                             | Donor services for in vitro fertilization (sperm or embryo), case rate   | Procedure     | HCPCS      |
| S4035                             | Stimulated intrauterine insemination (IUI), case rate  | Procedure     | HCPCS      |
| S4037                             | Cryopreserved embryo transfer, case rate   | Procedure     | HCPCS      |
| S4040                             | Monitoring and storage of cryopreserved embryos, per 30 days   | Procedure     | HCPCS      |
| <b>Any Dermatologic Condition</b> |  |               |            |
| H10.82                            | Rosacea conjunctivitis   | Diagnosis     | ICD-10-CM  |
| H10.821                           | Rosacea conjunctivitis, right eye  | Diagnosis     | ICD-10-CM  |
| H10.822                           | Rosacea conjunctivitis, left eye   | Diagnosis     | ICD-10-CM  |
| H10.823                           | Rosacea conjunctivitis, bilateral  | Diagnosis     | ICD-10-CM  |
| H10.829                           | Rosacea conjunctivitis, unspecified eye  | Diagnosis     | ICD-10-CM  |
| L65.8                             | Other specified nonscarring hair loss  | Diagnosis     | ICD-10-CM  |
| L66.0                             | Pseudopelade   | Diagnosis     | ICD-10-CM  |
| L66.2                             | Folliculitis decalvans   | Diagnosis     | ICD-10-CM  |
| L66.8                             | Other cicatricial alopecia   | Diagnosis     | ICD-10-CM  |
| L70.0                             | Acne vulgaris  | Diagnosis     | ICD-10-CM  |
| L70.1                             | Acne conglobata  | Diagnosis     | ICD-10-CM  |
| L70.2                             | Acne varioliformis   | Diagnosis     | ICD-10-CM  |
| L70.3                             | Acne tropica   | Diagnosis     | ICD-10-CM  |
| L70.4                             | Infantile acne   | Diagnosis     | ICD-10-CM  |
| L70.5                             | Acne excoriee  | Diagnosis     | ICD-10-CM  |
| L70.8                             | Other acne   | Diagnosis     | ICD-10-CM  |
| L70.9                             | Acne, unspecified  | Diagnosis     | ICD-10-CM  |
| L71                               | Rosacea  | Diagnosis     | ICD-10-CM  |
| L71.0                             | Perioral dermatitis  | Diagnosis     | ICD-10-CM  |
| L71.1                             | Rhinophyma   | Diagnosis     | ICD-10-CM  |
| L71.8                             | Other rosacea  | Diagnosis     | ICD-10-CM  |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description   | Code Category | Code Type |
|--|---|---------------|-----------|
| L71.9  | Rosacea, unspecified  | Diagnosis     | ICD-10-CM |
| L73  | Other follicular disorders  | Diagnosis     | ICD-10-CM |
| L73.0  | Acne keloid   | Diagnosis     | ICD-10-CM |
| L73.1  | Pseudofolliculitis barbae   | Diagnosis     | ICD-10-CM |
| L73.2  | Hidradenitis suppurativa  | Diagnosis     | ICD-10-CM |
| L73.8  | Other specified follicular disorders                                      | Diagnosis     | ICD-10-CM |
| L73.9  | Follicular disorder, unspecified  | Diagnosis     | ICD-10-CM |
| <b>Attention Deficit Hyperactivity Disorder (ADHD)</b> |   |               |           |
| F90  | Attention-deficit hyperactivity disorders                                 | Diagnosis     | ICD-10-CM |
| F90.0  | Attention-deficit hyperactivity disorder, predominantly inattentive type  | Diagnosis     | ICD-10-CM |
| F90.1  | Attention-deficit hyperactivity disorder, predominantly hyperactive type  | Diagnosis     | ICD-10-CM |
| F90.2  | Attention-deficit hyperactivity disorder, combined type                   | Diagnosis     | ICD-10-CM |
| F90.8  | Attention-deficit hyperactivity disorder, other type                      | Diagnosis     | ICD-10-CM |
| F90.9  | Attention-deficit hyperactivity disorder, unspecified type                | Diagnosis     | ICD-10-CM |
| <b>Alcohol Abuse or Dependence</b>                     |   |               |           |
| F10.1  | Alcohol abuse   | Diagnosis     | ICD-10-CM |
| F10.10   | Alcohol abuse, uncomplicated  | Diagnosis     | ICD-10-CM |
| F10.11   | Alcohol abuse, in remission   | Diagnosis     | ICD-10-CM |
| F10.12   | Alcohol abuse with intoxication   | Diagnosis     | ICD-10-CM |
| F10.120  | Alcohol abuse with intoxication, uncomplicated                            | Diagnosis     | ICD-10-CM |
| F10.121  | Alcohol abuse with intoxication delirium                                  | Diagnosis     | ICD-10-CM |
| F10.129  | Alcohol abuse with intoxication, unspecified                              | Diagnosis     | ICD-10-CM |
| F10.13   | Alcohol abuse, with withdrawal  | Diagnosis     | ICD-10-CM |
| F10.130  | Alcohol abuse with withdrawal, uncomplicated                              | Diagnosis     | ICD-10-CM |
| F10.131  | Alcohol abuse with withdrawal delirium                                    | Diagnosis     | ICD-10-CM |
| F10.132  | Alcohol abuse with withdrawal with perceptual disturbance                 | Diagnosis     | ICD-10-CM |
| F10.139  | Alcohol abuse with withdrawal, unspecified                                | Diagnosis     | ICD-10-CM |
| F10.14   | Alcohol abuse with alcohol-induced mood disorder                          | Diagnosis     | ICD-10-CM |
| F10.15   | Alcohol abuse with alcohol-induced psychotic disorder                     | Diagnosis     | ICD-10-CM |
| F10.150  | Alcohol abuse with alcohol-induced psychotic disorder with delusions      | Diagnosis     | ICD-10-CM |
| F10.151  | Alcohol abuse with alcohol-induced psychotic disorder with hallucinations | Diagnosis     | ICD-10-CM |
| F10.159  | Alcohol abuse with alcohol-induced psychotic disorder, unspecified        | Diagnosis     | ICD-10-CM |
| F10.18   | Alcohol abuse with other alcohol-induced disorders                        | Diagnosis     | ICD-10-CM |
| F10.180  | Alcohol abuse with alcohol-induced anxiety disorder                       | Diagnosis     | ICD-10-CM |
| F10.181  | Alcohol abuse with alcohol-induced sexual dysfunction                     | Diagnosis     | ICD-10-CM |
| F10.182  | Alcohol abuse with alcohol-induced sleep disorder                         | Diagnosis     | ICD-10-CM |
| F10.188  | Alcohol abuse with other alcohol-induced disorder                         | Diagnosis     | ICD-10-CM |
| F10.19   | Alcohol abuse with unspecified alcohol-induced disorder                   | Diagnosis     | ICD-10-CM |
| F10.2  | Alcohol dependence  | Diagnosis     | ICD-10-CM |
| F10.20   | Alcohol dependence, uncomplicated   | Diagnosis     | ICD-10-CM |
| F10.21   | Alcohol dependence, in remission  | Diagnosis     | ICD-10-CM |
| F10.22   | Alcohol dependence with intoxication                                      | Diagnosis     | ICD-10-CM |
| F10.220  | Alcohol dependence with intoxication, uncomplicated                       | Diagnosis     | ICD-10-CM |
| F10.221  | Alcohol dependence with intoxication delirium                             | Diagnosis     | ICD-10-CM |
| F10.229  | Alcohol dependence with intoxication, unspecified                         | Diagnosis     | ICD-10-CM |
| F10.23   | Alcohol dependence with withdrawal  | Diagnosis     | ICD-10-CM |
| F10.230  | Alcohol dependence with withdrawal, uncomplicated                         | Diagnosis     | ICD-10-CM |
| F10.231  | Alcohol dependence with withdrawal delirium                               | Diagnosis     | ICD-10-CM |
| F10.232  | Alcohol dependence with withdrawal with perceptual disturbance            | Diagnosis     | ICD-10-CM |
| F10.239  | Alcohol dependence with withdrawal, unspecified                           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| F10.24  | Alcohol dependence with alcohol-induced mood disorder                                | Diagnosis     | ICD-10-CM |
| F10.25  | Alcohol dependence with alcohol-induced psychotic disorder                           | Diagnosis     | ICD-10-CM |
| F10.250 | Alcohol dependence with alcohol-induced psychotic disorder with delusions            | Diagnosis     | ICD-10-CM |
| F10.251 | Alcohol dependence with alcohol-induced psychotic disorder with hallucinations       | Diagnosis     | ICD-10-CM |
| F10.259 | Alcohol dependence with alcohol-induced psychotic disorder, unspecified              | Diagnosis     | ICD-10-CM |
| F10.26  | Alcohol dependence with alcohol-induced persisting amnestic disorder                 | Diagnosis     | ICD-10-CM |
| F10.27  | Alcohol dependence with alcohol-induced persisting dementia                          | Diagnosis     | ICD-10-CM |
| F10.28  | Alcohol dependence with other alcohol-induced disorders                              | Diagnosis     | ICD-10-CM |
| F10.280 | Alcohol dependence with alcohol-induced anxiety disorder                             | Diagnosis     | ICD-10-CM |
| F10.281 | Alcohol dependence with alcohol-induced sexual dysfunction                           | Diagnosis     | ICD-10-CM |
| F10.282 | Alcohol dependence with alcohol-induced sleep disorder                               | Diagnosis     | ICD-10-CM |
| F10.288 | Alcohol dependence with other alcohol-induced disorder                               | Diagnosis     | ICD-10-CM |
| F10.29  | Alcohol dependence with unspecified alcohol-induced disorder                         | Diagnosis     | ICD-10-CM |
| F10.9   | Alcohol use, unspecified   | Diagnosis     | ICD-10-CM |
| F10.90  | Alcohol use, unspecified, uncomplicated  | Diagnosis     | ICD-10-CM |
| F10.91  | Alcohol use, unspecified, in remission   | Diagnosis     | ICD-10-CM |
| F10.92  | Alcohol use, unspecified with intoxication   | Diagnosis     | ICD-10-CM |
| F10.920 | Alcohol use, unspecified with intoxication, uncomplicated                            | Diagnosis     | ICD-10-CM |
| F10.921 | Alcohol use, unspecified with intoxication delirium                                  | Diagnosis     | ICD-10-CM |
| F10.929 | Alcohol use, unspecified with intoxication, unspecified                              | Diagnosis     | ICD-10-CM |
| F10.93  | Alcohol use, unspecified with withdrawal   | Diagnosis     | ICD-10-CM |
| F10.930 | Alcohol use, unspecified with withdrawal, uncomplicated                              | Diagnosis     | ICD-10-CM |
| F10.931 | Alcohol use, unspecified with withdrawal delirium                                    | Diagnosis     | ICD-10-CM |
| F10.932 | Alcohol use, unspecified with withdrawal with perceptual disturbance                 | Diagnosis     | ICD-10-CM |
| F10.939 | Alcohol use, unspecified with withdrawal, unspecified                                | Diagnosis     | ICD-10-CM |
| F10.94  | Alcohol use, unspecified with alcohol-induced mood disorder                          | Diagnosis     | ICD-10-CM |
| F10.95  | Alcohol use, unspecified with alcohol-induced psychotic disorder                     | Diagnosis     | ICD-10-CM |
| F10.950 | Alcohol use, unspecified with alcohol-induced psychotic disorder with delusions      | Diagnosis     | ICD-10-CM |
| F10.951 | Alcohol use, unspecified with alcohol-induced psychotic disorder with hallucinations | Diagnosis     | ICD-10-CM |
| F10.959 | Alcohol use, unspecified with alcohol-induced psychotic disorder, unspecified        | Diagnosis     | ICD-10-CM |
| F10.96  | Alcohol use, unspecified with alcohol-induced persisting amnestic disorder           | Diagnosis     | ICD-10-CM |
| F10.97  | Alcohol use, unspecified with alcohol-induced persisting dementia                    | Diagnosis     | ICD-10-CM |
| F10.98  | Alcohol use, unspecified with other alcohol-induced disorders                        | Diagnosis     | ICD-10-CM |
| F10.980 | Alcohol use, unspecified with alcohol-induced anxiety disorder                       | Diagnosis     | ICD-10-CM |
| F10.981 | Alcohol use, unspecified with alcohol-induced sexual dysfunction                     | Diagnosis     | ICD-10-CM |
| F10.982 | Alcohol use, unspecified with alcohol-induced sleep disorder                         | Diagnosis     | ICD-10-CM |
| F10.988 | Alcohol use, unspecified with other alcohol-induced disorder                         | Diagnosis     | ICD-10-CM |
| F10.99  | Alcohol use, unspecified with unspecified alcohol-induced disorder                   | Diagnosis     | ICD-10-CM |
| K70.0   | Alcoholic fatty liver  | Diagnosis     | ICD-10-CM |
| K70.1   | Alcoholic hepatitis  | Diagnosis     | ICD-10-CM |
| K70.10  | Alcoholic hepatitis without ascites  | Diagnosis     | ICD-10-CM |
| K70.11  | Alcoholic hepatitis with ascites   | Diagnosis     | ICD-10-CM |
| K70.2   | Alcoholic fibrosis and sclerosis of liver  | Diagnosis     | ICD-10-CM |
| K70.3   | Alcoholic cirrhosis of liver   | Diagnosis     | ICD-10-CM |
| K70.30  | Alcoholic cirrhosis of liver without ascites   | Diagnosis     | ICD-10-CM |
| K70.31  | Alcoholic cirrhosis of liver with ascites  | Diagnosis     | ICD-10-CM |
| K70.4   | Alcoholic hepatic failure  | Diagnosis     | ICD-10-CM |
| K70.40  | Alcoholic hepatic failure without coma   | Diagnosis     | ICD-10-CM |
| K70.41  | Alcoholic hepatic failure with coma  | Diagnosis     | ICD-10-CM |
| K70.9   | Alcoholic liver disease, unspecified   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code                             | Description  | Code Category | Code Type |
|----------------------------------|--|---------------|-----------|
| Z71.41                           | Alcohol abuse counseling and surveillance of alcoholic | Diagnosis     | ICD-10-CM |
| <b>Anxiety or Panic Disorder</b> |  |               |           |
| F06.4                            | Anxiety disorder due to known physiological condition  | Diagnosis     | ICD-10-CM |
| F40.0                            | Agoraphobia  | Diagnosis     | ICD-10-CM |
| F40.00                           | Agoraphobia, unspecified                               | Diagnosis     | ICD-10-CM |
| F40.01                           | Agoraphobia with panic disorder                        | Diagnosis     | ICD-10-CM |
| F40.02                           | Agoraphobia without panic disorder                     | Diagnosis     | ICD-10-CM |
| F40.1                            | Social phobias   | Diagnosis     | ICD-10-CM |
| F40.10                           | Social phobia, unspecified                             | Diagnosis     | ICD-10-CM |
| F40.11                           | Social phobia, generalized                             | Diagnosis     | ICD-10-CM |
| F40.2                            | Specific (isolated) phobias                            | Diagnosis     | ICD-10-CM |
| F40.21                           | Animal type phobia                                     | Diagnosis     | ICD-10-CM |
| F40.210                          | Arachnophobia  | Diagnosis     | ICD-10-CM |
| F40.218                          | Other animal type phobia                               | Diagnosis     | ICD-10-CM |
| F40.22                           | Natural environment type phobia                        | Diagnosis     | ICD-10-CM |
| F40.220                          | Fear of thunderstorms                                  | Diagnosis     | ICD-10-CM |
| F40.228                          | Other natural environment type phobia                  | Diagnosis     | ICD-10-CM |
| F40.23                           | Blood, injection, injury type phobia                   | Diagnosis     | ICD-10-CM |
| F40.230                          | Fear of blood  | Diagnosis     | ICD-10-CM |
| F40.231                          | Fear of injections and transfusions                    | Diagnosis     | ICD-10-CM |
| F40.232                          | Fear of other medical care                             | Diagnosis     | ICD-10-CM |
| F40.233                          | Fear of injury   | Diagnosis     | ICD-10-CM |
| F40.24                           | Situational type phobia                                | Diagnosis     | ICD-10-CM |
| F40.240                          | Claustrophobia   | Diagnosis     | ICD-10-CM |
| F40.241                          | Acrophobia   | Diagnosis     | ICD-10-CM |
| F40.242                          | Fear of bridges  | Diagnosis     | ICD-10-CM |
| F40.243                          | Fear of flying   | Diagnosis     | ICD-10-CM |
| F40.248                          | Other situational type phobia                          | Diagnosis     | ICD-10-CM |
| F40.29                           | Other specified phobia                                 | Diagnosis     | ICD-10-CM |
| F40.290                          | Androphobia  | Diagnosis     | ICD-10-CM |
| F40.291                          | Gynephobia   | Diagnosis     | ICD-10-CM |
| F40.298                          | Other specified phobia                                 | Diagnosis     | ICD-10-CM |
| F40.8                            | Other phobic anxiety disorders                         | Diagnosis     | ICD-10-CM |
| F40.9                            | Phobic anxiety disorder, unspecified                   | Diagnosis     | ICD-10-CM |
| F41.0                            | Panic disorder [episodic paroxysmal anxiety]           | Diagnosis     | ICD-10-CM |
| F41.1                            | Generalized anxiety disorder                           | Diagnosis     | ICD-10-CM |
| F41.3                            | Other mixed anxiety disorders                          | Diagnosis     | ICD-10-CM |
| F41.8                            | Other specified anxiety disorders                      | Diagnosis     | ICD-10-CM |
| F41.9                            | Anxiety disorder, unspecified                          | Diagnosis     | ICD-10-CM |
| F43.0                            | Acute stress reaction                                  | Diagnosis     | ICD-10-CM |
| F43.22                           | Adjustment disorder with anxiety                       | Diagnosis     | ICD-10-CM |
| F43.8                            | Other reactions to severe stress                       | Diagnosis     | ICD-10-CM |
| F43.9                            | Reaction to severe stress, unspecified                 | Diagnosis     | ICD-10-CM |
| <b>Any Malignancy</b>            |  |               |           |
| C00.0                            | Malignant neoplasm of external upper lip               | Diagnosis     | ICD-10-CM |
| C00.1                            | Malignant neoplasm of external lower lip               | Diagnosis     | ICD-10-CM |
| C00.2                            | Malignant neoplasm of external lip, unspecified        | Diagnosis     | ICD-10-CM |
| C00.3                            | Malignant neoplasm of upper lip, inner aspect          | Diagnosis     | ICD-10-CM |
| C00.4                            | Malignant neoplasm of lower lip, inner aspect          | Diagnosis     | ICD-10-CM |
| C00.5                            | Malignant neoplasm of lip, unspecified, inner aspect   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description   | Code Category | Code Type |
|--------|---|---------------|-----------|
| C00.6  | Malignant neoplasm of commissure of lip, unspecified                            | Diagnosis     | ICD-10-CM |
| C00.8  | Malignant neoplasm of overlapping sites of lip                                  | Diagnosis     | ICD-10-CM |
| C00.9  | Malignant neoplasm of lip, unspecified  | Diagnosis     | ICD-10-CM |
| C02.0  | Malignant neoplasm of dorsal surface of tongue                                  | Diagnosis     | ICD-10-CM |
| C02.1  | Malignant neoplasm of border of tongue  | Diagnosis     | ICD-10-CM |
| C02.2  | Malignant neoplasm of ventral surface of tongue                                 | Diagnosis     | ICD-10-CM |
| C02.3  | Malignant neoplasm of anterior two-thirds of tongue, part unspecified           | Diagnosis     | ICD-10-CM |
| C02.4  | Malignant neoplasm of lingual tonsil  | Diagnosis     | ICD-10-CM |
| C02.8  | Malignant neoplasm of overlapping sites of tongue                               | Diagnosis     | ICD-10-CM |
| C02.9  | Malignant neoplasm of tongue, unspecified                                       | Diagnosis     | ICD-10-CM |
| C03.0  | Malignant neoplasm of upper gum   | Diagnosis     | ICD-10-CM |
| C03.1  | Malignant neoplasm of lower gum   | Diagnosis     | ICD-10-CM |
| C03.9  | Malignant neoplasm of gum, unspecified  | Diagnosis     | ICD-10-CM |
| C04.0  | Malignant neoplasm of anterior floor of mouth                                   | Diagnosis     | ICD-10-CM |
| C04.1  | Malignant neoplasm of lateral floor of mouth                                    | Diagnosis     | ICD-10-CM |
| C04.8  | Malignant neoplasm of overlapping sites of floor of mouth                       | Diagnosis     | ICD-10-CM |
| C04.9  | Malignant neoplasm of floor of mouth, unspecified                               | Diagnosis     | ICD-10-CM |
| C05.0  | Malignant neoplasm of hard palate   | Diagnosis     | ICD-10-CM |
| C05.1  | Malignant neoplasm of soft palate   | Diagnosis     | ICD-10-CM |
| C05.2  | Malignant neoplasm of uvula   | Diagnosis     | ICD-10-CM |
| C05.8  | Malignant neoplasm of overlapping sites of palate                               | Diagnosis     | ICD-10-CM |
| C05.9  | Malignant neoplasm of palate, unspecified                                       | Diagnosis     | ICD-10-CM |
| C06.0  | Malignant neoplasm of cheek mucosa  | Diagnosis     | ICD-10-CM |
| C06.1  | Malignant neoplasm of vestibule of mouth  | Diagnosis     | ICD-10-CM |
| C06.2  | Malignant neoplasm of retromolar area   | Diagnosis     | ICD-10-CM |
| C06.8  | Malignant neoplasm of overlapping sites of other and unspecified parts of mouth | Diagnosis     | ICD-10-CM |
| C06.80 | Malignant neoplasm of overlapping sites of unspecified parts of mouth           | Diagnosis     | ICD-10-CM |
| C06.89 | Malignant neoplasm of overlapping sites of other parts of mouth                 | Diagnosis     | ICD-10-CM |
| C06.9  | Malignant neoplasm of mouth, unspecified  | Diagnosis     | ICD-10-CM |
| C08.0  | Malignant neoplasm of submandibular gland                                       | Diagnosis     | ICD-10-CM |
| C08.1  | Malignant neoplasm of sublingual gland  | Diagnosis     | ICD-10-CM |
| C08.9  | Malignant neoplasm of major salivary gland, unspecified                         | Diagnosis     | ICD-10-CM |
| C09.0  | Malignant neoplasm of tonsillar fossa   | Diagnosis     | ICD-10-CM |
| C09.1  | Malignant neoplasm of tonsillar pillar (anterior) (posterior)                   | Diagnosis     | ICD-10-CM |
| C09.8  | Malignant neoplasm of overlapping sites of tonsil                               | Diagnosis     | ICD-10-CM |
| C09.9  | Malignant neoplasm of tonsil, unspecified                                       | Diagnosis     | ICD-10-CM |
| C10.0  | Malignant neoplasm of vallecula   | Diagnosis     | ICD-10-CM |
| C10.1  | Malignant neoplasm of anterior surface of epiglottis                            | Diagnosis     | ICD-10-CM |
| C10.2  | Malignant neoplasm of lateral wall of oropharynx                                | Diagnosis     | ICD-10-CM |
| C10.3  | Malignant neoplasm of posterior wall of oropharynx                              | Diagnosis     | ICD-10-CM |
| C10.4  | Malignant neoplasm of branchial cleft   | Diagnosis     | ICD-10-CM |
| C10.8  | Malignant neoplasm of overlapping sites of oropharynx                           | Diagnosis     | ICD-10-CM |
| C10.9  | Malignant neoplasm of oropharynx, unspecified                                   | Diagnosis     | ICD-10-CM |
| C11.0  | Malignant neoplasm of superior wall of nasopharynx                              | Diagnosis     | ICD-10-CM |
| C11.1  | Malignant neoplasm of posterior wall of nasopharynx                             | Diagnosis     | ICD-10-CM |
| C11.2  | Malignant neoplasm of lateral wall of nasopharynx                               | Diagnosis     | ICD-10-CM |
| C11.3  | Malignant neoplasm of anterior wall of nasopharynx                              | Diagnosis     | ICD-10-CM |
| C11.8  | Malignant neoplasm of overlapping sites of nasopharynx                          | Diagnosis     | ICD-10-CM |
| C11.9  | Malignant neoplasm of nasopharynx, unspecified                                  | Diagnosis     | ICD-10-CM |
| C13.0  | Malignant neoplasm of postcricoid region  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code  | Description   | Code Category | Code Type |
|-------|---|---------------|-----------|
| C13.1 | Malignant neoplasm of aryepiglottic fold, hypopharyngeal aspect         | Diagnosis     | ICD-10-CM |
| C13.2 | Malignant neoplasm of posterior wall of hypopharynx                     | Diagnosis     | ICD-10-CM |
| C13.8 | Malignant neoplasm of overlapping sites of hypopharynx                  | Diagnosis     | ICD-10-CM |
| C13.9 | Malignant neoplasm of hypopharynx, unspecified                          | Diagnosis     | ICD-10-CM |
| C14.0 | Malignant neoplasm of pharynx, unspecified                              | Diagnosis     | ICD-10-CM |
| C14.2 | Malignant neoplasm of Waldeyer's ring                                   | Diagnosis     | ICD-10-CM |
| C14.8 | Malignant neoplasm of overlapping sites of lip, oral cavity and pharynx | Diagnosis     | ICD-10-CM |
| C15.3 | Malignant neoplasm of upper third of esophagus                          | Diagnosis     | ICD-10-CM |
| C15.4 | Malignant neoplasm of middle third of esophagus                         | Diagnosis     | ICD-10-CM |
| C15.5 | Malignant neoplasm of lower third of esophagus                          | Diagnosis     | ICD-10-CM |
| C15.8 | Malignant neoplasm of overlapping sites of esophagus                    | Diagnosis     | ICD-10-CM |
| C15.9 | Malignant neoplasm of esophagus, unspecified                            | Diagnosis     | ICD-10-CM |
| C16.0 | Malignant neoplasm of cardia  | Diagnosis     | ICD-10-CM |
| C16.1 | Malignant neoplasm of fundus of stomach                                 | Diagnosis     | ICD-10-CM |
| C16.2 | Malignant neoplasm of body of stomach                                   | Diagnosis     | ICD-10-CM |
| C16.3 | Malignant neoplasm of pyloric antrum                                    | Diagnosis     | ICD-10-CM |
| C16.4 | Malignant neoplasm of pylorus   | Diagnosis     | ICD-10-CM |
| C16.5 | Malignant neoplasm of lesser curvature of stomach, unspecified          | Diagnosis     | ICD-10-CM |
| C16.6 | Malignant neoplasm of greater curvature of stomach, unspecified         | Diagnosis     | ICD-10-CM |
| C16.8 | Malignant neoplasm of overlapping sites of stomach                      | Diagnosis     | ICD-10-CM |
| C16.9 | Malignant neoplasm of stomach, unspecified                              | Diagnosis     | ICD-10-CM |
| C17.0 | Malignant neoplasm of duodenum  | Diagnosis     | ICD-10-CM |
| C17.1 | Malignant neoplasm of jejunum   | Diagnosis     | ICD-10-CM |
| C17.2 | Malignant neoplasm of ileum   | Diagnosis     | ICD-10-CM |
| C17.3 | Meckel's diverticulum, malignant  | Diagnosis     | ICD-10-CM |
| C17.8 | Malignant neoplasm of overlapping sites of small intestine              | Diagnosis     | ICD-10-CM |
| C17.9 | Malignant neoplasm of small intestine, unspecified                      | Diagnosis     | ICD-10-CM |
| C18.0 | Malignant neoplasm of cecum   | Diagnosis     | ICD-10-CM |
| C18.1 | Malignant neoplasm of appendix  | Diagnosis     | ICD-10-CM |
| C18.2 | Malignant neoplasm of ascending colon                                   | Diagnosis     | ICD-10-CM |
| C18.3 | Malignant neoplasm of hepatic flexure                                   | Diagnosis     | ICD-10-CM |
| C18.4 | Malignant neoplasm of transverse colon                                  | Diagnosis     | ICD-10-CM |
| C18.5 | Malignant neoplasm of splenic flexure                                   | Diagnosis     | ICD-10-CM |
| C18.6 | Malignant neoplasm of descending colon                                  | Diagnosis     | ICD-10-CM |
| C18.7 | Malignant neoplasm of sigmoid colon                                     | Diagnosis     | ICD-10-CM |
| C18.8 | Malignant neoplasm of overlapping sites of colon                        | Diagnosis     | ICD-10-CM |
| C18.9 | Malignant neoplasm of colon, unspecified                                | Diagnosis     | ICD-10-CM |
| C21.0 | Malignant neoplasm of anus, unspecified                                 | Diagnosis     | ICD-10-CM |
| C21.1 | Malignant neoplasm of anal canal  | Diagnosis     | ICD-10-CM |
| C21.2 | Malignant neoplasm of cloacogenic zone                                  | Diagnosis     | ICD-10-CM |
| C21.8 | Malignant neoplasm of overlapping sites of rectum, anus and anal canal  | Diagnosis     | ICD-10-CM |
| C22.0 | Liver cell carcinoma  | Diagnosis     | ICD-10-CM |
| C22.1 | Intrahepatic bile duct carcinoma  | Diagnosis     | ICD-10-CM |
| C22.2 | Hepatoblastoma  | Diagnosis     | ICD-10-CM |
| C22.3 | Angiosarcoma of liver   | Diagnosis     | ICD-10-CM |
| C22.4 | Other sarcomas of liver   | Diagnosis     | ICD-10-CM |
| C22.7 | Other specified carcinomas of liver                                     | Diagnosis     | ICD-10-CM |
| C22.8 | Malignant neoplasm of liver, primary, unspecified as to type            | Diagnosis     | ICD-10-CM |
| C22.9 | Malignant neoplasm of liver, not specified as primary or secondary      | Diagnosis     | ICD-10-CM |
| C24.0 | Malignant neoplasm of extrahepatic bile duct                            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description  | Code Category | Code Type |
|--------|--|---------------|-----------|
| C24.1  | Malignant neoplasm of ampulla of Vater                                   | Diagnosis     | ICD-10-CM |
| C24.8  | Malignant neoplasm of overlapping sites of biliary tract                 | Diagnosis     | ICD-10-CM |
| C24.9  | Malignant neoplasm of biliary tract, unspecified                         | Diagnosis     | ICD-10-CM |
| C25.0  | Malignant neoplasm of head of pancreas                                   | Diagnosis     | ICD-10-CM |
| C25.1  | Malignant neoplasm of body of pancreas                                   | Diagnosis     | ICD-10-CM |
| C25.2  | Malignant neoplasm of tail of pancreas                                   | Diagnosis     | ICD-10-CM |
| C25.3  | Malignant neoplasm of pancreatic duct                                    | Diagnosis     | ICD-10-CM |
| C25.4  | Malignant neoplasm of endocrine pancreas                                 | Diagnosis     | ICD-10-CM |
| C25.7  | Malignant neoplasm of other parts of pancreas                            | Diagnosis     | ICD-10-CM |
| C25.8  | Malignant neoplasm of overlapping sites of pancreas                      | Diagnosis     | ICD-10-CM |
| C25.9  | Malignant neoplasm of pancreas, unspecified                              | Diagnosis     | ICD-10-CM |
| C26.0  | Malignant neoplasm of intestinal tract, part unspecified                 | Diagnosis     | ICD-10-CM |
| C26.1  | Malignant neoplasm of spleen   | Diagnosis     | ICD-10-CM |
| C26.9  | Malignant neoplasm of ill-defined sites within the digestive system      | Diagnosis     | ICD-10-CM |
| C30.0  | Malignant neoplasm of nasal cavity                                       | Diagnosis     | ICD-10-CM |
| C30.1  | Malignant neoplasm of middle ear   | Diagnosis     | ICD-10-CM |
| C31.0  | Malignant neoplasm of maxillary sinus                                    | Diagnosis     | ICD-10-CM |
| C31.1  | Malignant neoplasm of ethmoidal sinus                                    | Diagnosis     | ICD-10-CM |
| C31.2  | Malignant neoplasm of frontal sinus                                      | Diagnosis     | ICD-10-CM |
| C31.3  | Malignant neoplasm of sphenoid sinus                                     | Diagnosis     | ICD-10-CM |
| C31.8  | Malignant neoplasm of overlapping sites of accessory sinuses             | Diagnosis     | ICD-10-CM |
| C31.9  | Malignant neoplasm of accessory sinus, unspecified                       | Diagnosis     | ICD-10-CM |
| C32.0  | Malignant neoplasm of glottis  | Diagnosis     | ICD-10-CM |
| C32.1  | Malignant neoplasm of supraglottis                                       | Diagnosis     | ICD-10-CM |
| C32.2  | Malignant neoplasm of subglottis   | Diagnosis     | ICD-10-CM |
| C32.3  | Malignant neoplasm of laryngeal cartilage                                | Diagnosis     | ICD-10-CM |
| C32.8  | Malignant neoplasm of overlapping sites of larynx                        | Diagnosis     | ICD-10-CM |
| C32.9  | Malignant neoplasm of larynx, unspecified                                | Diagnosis     | ICD-10-CM |
| C34.0  | Malignant neoplasm of main bronchus                                      | Diagnosis     | ICD-10-CM |
| C34.00 | Malignant neoplasm of unspecified main bronchus                          | Diagnosis     | ICD-10-CM |
| C34.01 | Malignant neoplasm of right main bronchus                                | Diagnosis     | ICD-10-CM |
| C34.02 | Malignant neoplasm of left main bronchus                                 | Diagnosis     | ICD-10-CM |
| C34.1  | Malignant neoplasm of upper lobe, bronchus or lung                       | Diagnosis     | ICD-10-CM |
| C34.10 | Malignant neoplasm of upper lobe, unspecified bronchus or lung           | Diagnosis     | ICD-10-CM |
| C34.11 | Malignant neoplasm of upper lobe, right bronchus or lung                 | Diagnosis     | ICD-10-CM |
| C34.12 | Malignant neoplasm of upper lobe, left bronchus or lung                  | Diagnosis     | ICD-10-CM |
| C34.2  | Malignant neoplasm of middle lobe, bronchus or lung                      | Diagnosis     | ICD-10-CM |
| C34.3  | Malignant neoplasm of lower lobe, bronchus or lung                       | Diagnosis     | ICD-10-CM |
| C34.30 | Malignant neoplasm of lower lobe, unspecified bronchus or lung           | Diagnosis     | ICD-10-CM |
| C34.31 | Malignant neoplasm of lower lobe, right bronchus or lung                 | Diagnosis     | ICD-10-CM |
| C34.32 | Malignant neoplasm of lower lobe, left bronchus or lung                  | Diagnosis     | ICD-10-CM |
| C34.8  | Malignant neoplasm of overlapping sites of bronchus and lung             | Diagnosis     | ICD-10-CM |
| C34.80 | Malignant neoplasm of overlapping sites of unspecified bronchus and lung | Diagnosis     | ICD-10-CM |
| C34.81 | Malignant neoplasm of overlapping sites of right bronchus and lung       | Diagnosis     | ICD-10-CM |
| C34.82 | Malignant neoplasm of overlapping sites of left bronchus and lung        | Diagnosis     | ICD-10-CM |
| C34.9  | Malignant neoplasm of unspecified part of bronchus or lung               | Diagnosis     | ICD-10-CM |
| C34.90 | Malignant neoplasm of unspecified part of unspecified bronchus or lung   | Diagnosis     | ICD-10-CM |
| C34.91 | Malignant neoplasm of unspecified part of right bronchus or lung         | Diagnosis     | ICD-10-CM |
| C34.92 | Malignant neoplasm of unspecified part of left bronchus or lung          | Diagnosis     | ICD-10-CM |
| C38.0  | Malignant neoplasm of heart  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| C38.1   | Malignant neoplasm of anterior mediastinum  | Diagnosis     | ICD-10-CM |
| C38.2   | Malignant neoplasm of posterior mediastinum   | Diagnosis     | ICD-10-CM |
| C38.3   | Malignant neoplasm of mediastinum, part unspecified   | Diagnosis     | ICD-10-CM |
| C38.4   | Malignant neoplasm of pleura  | Diagnosis     | ICD-10-CM |
| C38.8   | Malignant neoplasm of overlapping sites of heart, mediastinum and pleura                    | Diagnosis     | ICD-10-CM |
| C39.0   | Malignant neoplasm of upper respiratory tract, part unspecified                             | Diagnosis     | ICD-10-CM |
| C39.9   | Malignant neoplasm of lower respiratory tract, part unspecified                             | Diagnosis     | ICD-10-CM |
| C40.0   | Malignant neoplasm of scapula and long bones of upper limb                                  | Diagnosis     | ICD-10-CM |
| C40.00  | Malignant neoplasm of scapula and long bones of unspecified upper limb                      | Diagnosis     | ICD-10-CM |
| C40.01  | Malignant neoplasm of scapula and long bones of right upper limb                            | Diagnosis     | ICD-10-CM |
| C40.02  | Malignant neoplasm of scapula and long bones of left upper limb                             | Diagnosis     | ICD-10-CM |
| C40.1   | Malignant neoplasm of short bones of upper limb   | Diagnosis     | ICD-10-CM |
| C40.10  | Malignant neoplasm of short bones of unspecified upper limb                                 | Diagnosis     | ICD-10-CM |
| C40.11  | Malignant neoplasm of short bones of right upper limb                                       | Diagnosis     | ICD-10-CM |
| C40.12  | Malignant neoplasm of short bones of left upper limb  | Diagnosis     | ICD-10-CM |
| C40.2   | Malignant neoplasm of long bones of lower limb  | Diagnosis     | ICD-10-CM |
| C40.20  | Malignant neoplasm of long bones of unspecified lower limb                                  | Diagnosis     | ICD-10-CM |
| C40.21  | Malignant neoplasm of long bones of right lower limb  | Diagnosis     | ICD-10-CM |
| C40.22  | Malignant neoplasm of long bones of left lower limb   | Diagnosis     | ICD-10-CM |
| C40.3   | Malignant neoplasm of short bones of lower limb   | Diagnosis     | ICD-10-CM |
| C40.30  | Malignant neoplasm of short bones of unspecified lower limb                                 | Diagnosis     | ICD-10-CM |
| C40.31  | Malignant neoplasm of short bones of right lower limb                                       | Diagnosis     | ICD-10-CM |
| C40.32  | Malignant neoplasm of short bones of left lower limb  | Diagnosis     | ICD-10-CM |
| C40.8   | Malignant neoplasm of overlapping sites of bone and articular cartilage of limb             | Diagnosis     | ICD-10-CM |
| C40.80  | Malignant neoplasm of overlapping sites of bone and articular cartilage of unspecified limb | Diagnosis     | ICD-10-CM |
| C40.81  | Malignant neoplasm of overlapping sites of bone and articular cartilage of right limb       | Diagnosis     | ICD-10-CM |
| C40.82  | Malignant neoplasm of overlapping sites of bone and articular cartilage of left limb        | Diagnosis     | ICD-10-CM |
| C40.9   | Malignant neoplasm of unspecified bones and articular cartilage of limb                     | Diagnosis     | ICD-10-CM |
| C40.90  | Malignant neoplasm of unspecified bones and articular cartilage of unspecified limb         | Diagnosis     | ICD-10-CM |
| C40.91  | Malignant neoplasm of unspecified bones and articular cartilage of right limb               | Diagnosis     | ICD-10-CM |
| C40.92  | Malignant neoplasm of unspecified bones and articular cartilage of left limb                | Diagnosis     | ICD-10-CM |
| C41.0   | Malignant neoplasm of bones of skull and face   | Diagnosis     | ICD-10-CM |
| C41.1   | Malignant neoplasm of mandible  | Diagnosis     | ICD-10-CM |
| C41.2   | Malignant neoplasm of vertebral column  | Diagnosis     | ICD-10-CM |
| C41.3   | Malignant neoplasm of ribs, sternum and clavicle  | Diagnosis     | ICD-10-CM |
| C41.4   | Malignant neoplasm of pelvic bones, sacrum and coccyx                                       | Diagnosis     | ICD-10-CM |
| C41.9   | Malignant neoplasm of bone and articular cartilage, unspecified                             | Diagnosis     | ICD-10-CM |
| C43.0   | Malignant melanoma of lip   | Diagnosis     | ICD-10-CM |
| C43.1   | Malignant melanoma of eyelid, including canthus   | Diagnosis     | ICD-10-CM |
| C43.10  | Malignant melanoma of unspecified eyelid, including canthus                                 | Diagnosis     | ICD-10-CM |
| C43.11  | Malignant melanoma of right eyelid, including canthus                                       | Diagnosis     | ICD-10-CM |
| C43.111 | Malignant melanoma of right upper eyelid, including canthus                                 | Diagnosis     | ICD-10-CM |
| C43.112 | Malignant melanoma of right lower eyelid, including canthus                                 | Diagnosis     | ICD-10-CM |
| C43.12  | Malignant melanoma of left eyelid, including canthus  | Diagnosis     | ICD-10-CM |
| C43.121 | Malignant melanoma of left upper eyelid, including canthus                                  | Diagnosis     | ICD-10-CM |
| C43.122 | Malignant melanoma of left lower eyelid, including canthus                                  | Diagnosis     | ICD-10-CM |
| C43.2   | Malignant melanoma of ear and external auricular canal                                      | Diagnosis     | ICD-10-CM |
| C43.20  | Malignant melanoma of unspecified ear and external auricular canal                          | Diagnosis     | ICD-10-CM |
| C43.21  | Malignant melanoma of right ear and external auricular canal                                | Diagnosis     | ICD-10-CM |
| C43.22  | Malignant melanoma of left ear and external auricular canal                                 | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description   | Code Category | Code Type |
|--------|---|---------------|-----------|
| C43.3  | Malignant melanoma of other and unspecified parts of face                                 | Diagnosis     | ICD-10-CM |
| C43.30 | Malignant melanoma of unspecified part of face  | Diagnosis     | ICD-10-CM |
| C43.31 | Malignant melanoma of nose  | Diagnosis     | ICD-10-CM |
| C43.39 | Malignant melanoma of other parts of face   | Diagnosis     | ICD-10-CM |
| C43.4  | Malignant melanoma of scalp and neck  | Diagnosis     | ICD-10-CM |
| C43.5  | Malignant melanoma of trunk   | Diagnosis     | ICD-10-CM |
| C43.51 | Malignant melanoma of anal skin   | Diagnosis     | ICD-10-CM |
| C43.52 | Malignant melanoma of skin of breast  | Diagnosis     | ICD-10-CM |
| C43.59 | Malignant melanoma of other part of trunk   | Diagnosis     | ICD-10-CM |
| C43.6  | Malignant melanoma of upper limb, including shoulder                                      | Diagnosis     | ICD-10-CM |
| C43.60 | Malignant melanoma of unspecified upper limb, including shoulder                          | Diagnosis     | ICD-10-CM |
| C43.61 | Malignant melanoma of right upper limb, including shoulder                                | Diagnosis     | ICD-10-CM |
| C43.62 | Malignant melanoma of left upper limb, including shoulder                                 | Diagnosis     | ICD-10-CM |
| C43.7  | Malignant melanoma of lower limb, including hip   | Diagnosis     | ICD-10-CM |
| C43.70 | Malignant melanoma of unspecified lower limb, including hip                               | Diagnosis     | ICD-10-CM |
| C43.71 | Malignant melanoma of right lower limb, including hip                                     | Diagnosis     | ICD-10-CM |
| C43.72 | Malignant melanoma of left lower limb, including hip                                      | Diagnosis     | ICD-10-CM |
| C43.8  | Malignant melanoma of overlapping sites of skin   | Diagnosis     | ICD-10-CM |
| C43.9  | Malignant melanoma of skin, unspecified   | Diagnosis     | ICD-10-CM |
| C45.0  | Mesothelioma of pleura  | Diagnosis     | ICD-10-CM |
| C45.1  | Mesothelioma of peritoneum  | Diagnosis     | ICD-10-CM |
| C45.2  | Mesothelioma of pericardium   | Diagnosis     | ICD-10-CM |
| C45.7  | Mesothelioma of other sites   | Diagnosis     | ICD-10-CM |
| C45.9  | Mesothelioma, unspecified   | Diagnosis     | ICD-10-CM |
| C46.0  | Kaposi's sarcoma of skin  | Diagnosis     | ICD-10-CM |
| C46.1  | Kaposi's sarcoma of soft tissue   | Diagnosis     | ICD-10-CM |
| C46.2  | Kaposi's sarcoma of palate  | Diagnosis     | ICD-10-CM |
| C46.3  | Kaposi's sarcoma of lymph nodes   | Diagnosis     | ICD-10-CM |
| C46.4  | Kaposi's sarcoma of gastrointestinal sites  | Diagnosis     | ICD-10-CM |
| C46.5  | Kaposi's sarcoma of lung  | Diagnosis     | ICD-10-CM |
| C46.50 | Kaposi's sarcoma of unspecified lung  | Diagnosis     | ICD-10-CM |
| C46.51 | Kaposi's sarcoma of right lung  | Diagnosis     | ICD-10-CM |
| C46.52 | Kaposi's sarcoma of left lung   | Diagnosis     | ICD-10-CM |
| C46.7  | Kaposi's sarcoma of other sites   | Diagnosis     | ICD-10-CM |
| C46.9  | Kaposi's sarcoma, unspecified   | Diagnosis     | ICD-10-CM |
| C47.0  | Malignant neoplasm of peripheral nerves of head, face and neck                            | Diagnosis     | ICD-10-CM |
| C47.1  | Malignant neoplasm of peripheral nerves of upper limb, including shoulder                 | Diagnosis     | ICD-10-CM |
| C47.10 | Malignant neoplasm of peripheral nerves of unspecified upper limb, including shoulder     | Diagnosis     | ICD-10-CM |
| C47.11 | Malignant neoplasm of peripheral nerves of right upper limb, including shoulder           | Diagnosis     | ICD-10-CM |
| C47.12 | Malignant neoplasm of peripheral nerves of left upper limb, including shoulder            | Diagnosis     | ICD-10-CM |
| C47.2  | Malignant neoplasm of peripheral nerves of lower limb, including hip                      | Diagnosis     | ICD-10-CM |
| C47.20 | Malignant neoplasm of peripheral nerves of unspecified lower limb, including hip          | Diagnosis     | ICD-10-CM |
| C47.21 | Malignant neoplasm of peripheral nerves of right lower limb, including hip                | Diagnosis     | ICD-10-CM |
| C47.22 | Malignant neoplasm of peripheral nerves of left lower limb, including hip                 | Diagnosis     | ICD-10-CM |
| C47.3  | Malignant neoplasm of peripheral nerves of thorax   | Diagnosis     | ICD-10-CM |
| C47.4  | Malignant neoplasm of peripheral nerves of abdomen  | Diagnosis     | ICD-10-CM |
| C47.5  | Malignant neoplasm of peripheral nerves of pelvis   | Diagnosis     | ICD-10-CM |
| C47.6  | Malignant neoplasm of peripheral nerves of trunk, unspecified                             | Diagnosis     | ICD-10-CM |
| C47.8  | Malignant neoplasm of overlapping sites of peripheral nerves and autonomic nervous system | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| C47.9   | Malignant neoplasm of peripheral nerves and autonomic nervous system, unspecified              | Diagnosis     | ICD-10-CM |
| C48.0   | Malignant neoplasm of retroperitoneum  | Diagnosis     | ICD-10-CM |
| C48.1   | Malignant neoplasm of specified parts of peritoneum  | Diagnosis     | ICD-10-CM |
| C48.2   | Malignant neoplasm of peritoneum, unspecified  | Diagnosis     | ICD-10-CM |
| C48.8   | Malignant neoplasm of overlapping sites of retroperitoneum and peritoneum                      | Diagnosis     | ICD-10-CM |
| C49.0   | Malignant neoplasm of connective and soft tissue of head, face and neck                        | Diagnosis     | ICD-10-CM |
| C49.1   | Malignant neoplasm of connective and soft tissue of upper limb, including shoulder             | Diagnosis     | ICD-10-CM |
| C49.10  | Malignant neoplasm of connective and soft tissue of unspecified upper limb, including shoulder | Diagnosis     | ICD-10-CM |
| C49.11  | Malignant neoplasm of connective and soft tissue of right upper limb, including shoulder       | Diagnosis     | ICD-10-CM |
| C49.12  | Malignant neoplasm of connective and soft tissue of left upper limb, including shoulder        | Diagnosis     | ICD-10-CM |
| C49.2   | Malignant neoplasm of connective and soft tissue of lower limb, including hip                  | Diagnosis     | ICD-10-CM |
| C49.20  | Malignant neoplasm of connective and soft tissue of unspecified lower limb, including hip      | Diagnosis     | ICD-10-CM |
| C49.21  | Malignant neoplasm of connective and soft tissue of right lower limb, including hip            | Diagnosis     | ICD-10-CM |
| C49.22  | Malignant neoplasm of connective and soft tissue of left lower limb, including hip             | Diagnosis     | ICD-10-CM |
| C49.3   | Malignant neoplasm of connective and soft tissue of thorax                                     | Diagnosis     | ICD-10-CM |
| C49.4   | Malignant neoplasm of connective and soft tissue of abdomen                                    | Diagnosis     | ICD-10-CM |
| C49.5   | Malignant neoplasm of connective and soft tissue of pelvis                                     | Diagnosis     | ICD-10-CM |
| C49.6   | Malignant neoplasm of connective and soft tissue of trunk, unspecified                         | Diagnosis     | ICD-10-CM |
| C49.8   | Malignant neoplasm of overlapping sites of connective and soft tissue                          | Diagnosis     | ICD-10-CM |
| C49.9   | Malignant neoplasm of connective and soft tissue, unspecified                                  | Diagnosis     | ICD-10-CM |
| C49.A   | Gastrointestinal stromal tumor   | Diagnosis     | ICD-10-CM |
| C49.A0  | Gastrointestinal stromal tumor, unspecified site   | Diagnosis     | ICD-10-CM |
| C49.A1  | Gastrointestinal stromal tumor of esophagus  | Diagnosis     | ICD-10-CM |
| C49.A2  | Gastrointestinal stromal tumor of stomach  | Diagnosis     | ICD-10-CM |
| C49.A3  | Gastrointestinal stromal tumor of small intestine  | Diagnosis     | ICD-10-CM |
| C49.A4  | Gastrointestinal stromal tumor of large intestine  | Diagnosis     | ICD-10-CM |
| C49.A5  | Gastrointestinal stromal tumor of rectum   | Diagnosis     | ICD-10-CM |
| C49.A9  | Gastrointestinal stromal tumor of other sites  | Diagnosis     | ICD-10-CM |
| C50.0   | Malignant neoplasm of nipple and areola  | Diagnosis     | ICD-10-CM |
| C50.01  | Malignant neoplasm of nipple and areola, female  | Diagnosis     | ICD-10-CM |
| C50.011 | Malignant neoplasm of nipple and areola, right female breast                                   | Diagnosis     | ICD-10-CM |
| C50.012 | Malignant neoplasm of nipple and areola, left female breast                                    | Diagnosis     | ICD-10-CM |
| C50.019 | Malignant neoplasm of nipple and areola, unspecified female breast                             | Diagnosis     | ICD-10-CM |
| C50.02  | Malignant neoplasm of nipple and areola, male  | Diagnosis     | ICD-10-CM |
| C50.021 | Malignant neoplasm of nipple and areola, right male breast                                     | Diagnosis     | ICD-10-CM |
| C50.022 | Malignant neoplasm of nipple and areola, left male breast                                      | Diagnosis     | ICD-10-CM |
| C50.029 | Malignant neoplasm of nipple and areola, unspecified male breast                               | Diagnosis     | ICD-10-CM |
| C50.1   | Malignant neoplasm of central portion of breast  | Diagnosis     | ICD-10-CM |
| C50.11  | Malignant neoplasm of central portion of breast, female  | Diagnosis     | ICD-10-CM |
| C50.111 | Malignant neoplasm of central portion of right female breast                                   | Diagnosis     | ICD-10-CM |
| C50.112 | Malignant neoplasm of central portion of left female breast                                    | Diagnosis     | ICD-10-CM |
| C50.119 | Malignant neoplasm of central portion of unspecified female breast                             | Diagnosis     | ICD-10-CM |
| C50.12  | Malignant neoplasm of central portion of breast, male  | Diagnosis     | ICD-10-CM |
| C50.121 | Malignant neoplasm of central portion of right male breast                                     | Diagnosis     | ICD-10-CM |
| C50.122 | Malignant neoplasm of central portion of left male breast                                      | Diagnosis     | ICD-10-CM |
| C50.129 | Malignant neoplasm of central portion of unspecified male breast                               | Diagnosis     | ICD-10-CM |
| C50.2   | Malignant neoplasm of upper-inner quadrant of breast   | Diagnosis     | ICD-10-CM |
| C50.21  | Malignant neoplasm of upper-inner quadrant of breast, female                                   | Diagnosis     | ICD-10-CM |
| C50.211 | Malignant neoplasm of upper-inner quadrant of right female breast                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| C50.212 | Malignant neoplasm of upper-inner quadrant of left female breast        | Diagnosis     | ICD-10-CM |
| C50.219 | Malignant neoplasm of upper-inner quadrant of unspecified female breast | Diagnosis     | ICD-10-CM |
| C50.22  | Malignant neoplasm of upper-inner quadrant of breast, male              | Diagnosis     | ICD-10-CM |
| C50.221 | Malignant neoplasm of upper-inner quadrant of right male breast         | Diagnosis     | ICD-10-CM |
| C50.222 | Malignant neoplasm of upper-inner quadrant of left male breast          | Diagnosis     | ICD-10-CM |
| C50.229 | Malignant neoplasm of upper-inner quadrant of unspecified male breast   | Diagnosis     | ICD-10-CM |
| C50.3   | Malignant neoplasm of lower-inner quadrant of breast                    | Diagnosis     | ICD-10-CM |
| C50.31  | Malignant neoplasm of lower-inner quadrant of breast, female            | Diagnosis     | ICD-10-CM |
| C50.311 | Malignant neoplasm of lower-inner quadrant of right female breast       | Diagnosis     | ICD-10-CM |
| C50.312 | Malignant neoplasm of lower-inner quadrant of left female breast        | Diagnosis     | ICD-10-CM |
| C50.319 | Malignant neoplasm of lower-inner quadrant of unspecified female breast | Diagnosis     | ICD-10-CM |
| C50.32  | Malignant neoplasm of lower-inner quadrant of breast, male              | Diagnosis     | ICD-10-CM |
| C50.321 | Malignant neoplasm of lower-inner quadrant of right male breast         | Diagnosis     | ICD-10-CM |
| C50.322 | Malignant neoplasm of lower-inner quadrant of left male breast          | Diagnosis     | ICD-10-CM |
| C50.329 | Malignant neoplasm of lower-inner quadrant of unspecified male breast   | Diagnosis     | ICD-10-CM |
| C50.4   | Malignant neoplasm of upper-outer quadrant of breast                    | Diagnosis     | ICD-10-CM |
| C50.41  | Malignant neoplasm of upper-outer quadrant of breast, female            | Diagnosis     | ICD-10-CM |
| C50.411 | Malignant neoplasm of upper-outer quadrant of right female breast       | Diagnosis     | ICD-10-CM |
| C50.412 | Malignant neoplasm of upper-outer quadrant of left female breast        | Diagnosis     | ICD-10-CM |
| C50.419 | Malignant neoplasm of upper-outer quadrant of unspecified female breast | Diagnosis     | ICD-10-CM |
| C50.42  | Malignant neoplasm of upper-outer quadrant of breast, male              | Diagnosis     | ICD-10-CM |
| C50.421 | Malignant neoplasm of upper-outer quadrant of right male breast         | Diagnosis     | ICD-10-CM |
| C50.422 | Malignant neoplasm of upper-outer quadrant of left male breast          | Diagnosis     | ICD-10-CM |
| C50.429 | Malignant neoplasm of upper-outer quadrant of unspecified male breast   | Diagnosis     | ICD-10-CM |
| C50.5   | Malignant neoplasm of lower-outer quadrant of breast                    | Diagnosis     | ICD-10-CM |
| C50.51  | Malignant neoplasm of lower-outer quadrant of breast, female            | Diagnosis     | ICD-10-CM |
| C50.511 | Malignant neoplasm of lower-outer quadrant of right female breast       | Diagnosis     | ICD-10-CM |
| C50.512 | Malignant neoplasm of lower-outer quadrant of left female breast        | Diagnosis     | ICD-10-CM |
| C50.519 | Malignant neoplasm of lower-outer quadrant of unspecified female breast | Diagnosis     | ICD-10-CM |
| C50.52  | Malignant neoplasm of lower-outer quadrant of breast, male              | Diagnosis     | ICD-10-CM |
| C50.521 | Malignant neoplasm of lower-outer quadrant of right male breast         | Diagnosis     | ICD-10-CM |
| C50.522 | Malignant neoplasm of lower-outer quadrant of left male breast          | Diagnosis     | ICD-10-CM |
| C50.529 | Malignant neoplasm of lower-outer quadrant of unspecified male breast   | Diagnosis     | ICD-10-CM |
| C50.6   | Malignant neoplasm of axillary tail of breast                           | Diagnosis     | ICD-10-CM |
| C50.61  | Malignant neoplasm of axillary tail of breast, female                   | Diagnosis     | ICD-10-CM |
| C50.611 | Malignant neoplasm of axillary tail of right female breast              | Diagnosis     | ICD-10-CM |
| C50.612 | Malignant neoplasm of axillary tail of left female breast               | Diagnosis     | ICD-10-CM |
| C50.619 | Malignant neoplasm of axillary tail of unspecified female breast        | Diagnosis     | ICD-10-CM |
| C50.62  | Malignant neoplasm of axillary tail of breast, male                     | Diagnosis     | ICD-10-CM |
| C50.621 | Malignant neoplasm of axillary tail of right male breast                | Diagnosis     | ICD-10-CM |
| C50.622 | Malignant neoplasm of axillary tail of left male breast                 | Diagnosis     | ICD-10-CM |
| C50.629 | Malignant neoplasm of axillary tail of unspecified male breast          | Diagnosis     | ICD-10-CM |
| C50.8   | Malignant neoplasm of overlapping sites of breast                       | Diagnosis     | ICD-10-CM |
| C50.81  | Malignant neoplasm of overlapping sites of breast, female               | Diagnosis     | ICD-10-CM |
| C50.811 | Malignant neoplasm of overlapping sites of right female breast          | Diagnosis     | ICD-10-CM |
| C50.812 | Malignant neoplasm of overlapping sites of left female breast           | Diagnosis     | ICD-10-CM |
| C50.819 | Malignant neoplasm of overlapping sites of unspecified female breast    | Diagnosis     | ICD-10-CM |
| C50.82  | Malignant neoplasm of overlapping sites of breast, male                 | Diagnosis     | ICD-10-CM |
| C50.821 | Malignant neoplasm of overlapping sites of right male breast            | Diagnosis     | ICD-10-CM |
| C50.822 | Malignant neoplasm of overlapping sites of left male breast             | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| C50.829 | Malignant neoplasm of overlapping sites of unspecified male breast  | Diagnosis     | ICD-10-CM |
| C50.9   | Malignant neoplasm of breast of unspecified site                    | Diagnosis     | ICD-10-CM |
| C50.91  | Malignant neoplasm of breast of unspecified site, female            | Diagnosis     | ICD-10-CM |
| C50.911 | Malignant neoplasm of unspecified site of right female breast       | Diagnosis     | ICD-10-CM |
| C50.912 | Malignant neoplasm of unspecified site of left female breast        | Diagnosis     | ICD-10-CM |
| C50.919 | Malignant neoplasm of unspecified site of unspecified female breast | Diagnosis     | ICD-10-CM |
| C50.92  | Malignant neoplasm of breast of unspecified site, male              | Diagnosis     | ICD-10-CM |
| C50.921 | Malignant neoplasm of unspecified site of right male breast         | Diagnosis     | ICD-10-CM |
| C50.922 | Malignant neoplasm of unspecified site of left male breast          | Diagnosis     | ICD-10-CM |
| C50.929 | Malignant neoplasm of unspecified site of unspecified male breast   | Diagnosis     | ICD-10-CM |
| C51.0   | Malignant neoplasm of labium majus                                  | Diagnosis     | ICD-10-CM |
| C51.1   | Malignant neoplasm of labium minus                                  | Diagnosis     | ICD-10-CM |
| C51.2   | Malignant neoplasm of clitoris                                      | Diagnosis     | ICD-10-CM |
| C51.8   | Malignant neoplasm of overlapping sites of vulva                    | Diagnosis     | ICD-10-CM |
| C51.9   | Malignant neoplasm of vulva, unspecified                            | Diagnosis     | ICD-10-CM |
| C53.0   | Malignant neoplasm of endocervix                                    | Diagnosis     | ICD-10-CM |
| C53.1   | Malignant neoplasm of exocervix                                     | Diagnosis     | ICD-10-CM |
| C53.8   | Malignant neoplasm of overlapping sites of cervix uteri             | Diagnosis     | ICD-10-CM |
| C53.9   | Malignant neoplasm of cervix uteri, unspecified                     | Diagnosis     | ICD-10-CM |
| C54.0   | Malignant neoplasm of isthmus uteri                                 | Diagnosis     | ICD-10-CM |
| C54.1   | Malignant neoplasm of endometrium                                   | Diagnosis     | ICD-10-CM |
| C54.2   | Malignant neoplasm of myometrium                                    | Diagnosis     | ICD-10-CM |
| C54.3   | Malignant neoplasm of fundus uteri                                  | Diagnosis     | ICD-10-CM |
| C54.8   | Malignant neoplasm of overlapping sites of corpus uteri             | Diagnosis     | ICD-10-CM |
| C54.9   | Malignant neoplasm of corpus uteri, unspecified                     | Diagnosis     | ICD-10-CM |
| C56.1   | Malignant neoplasm of right ovary                                   | Diagnosis     | ICD-10-CM |
| C56.2   | Malignant neoplasm of left ovary                                    | Diagnosis     | ICD-10-CM |
| C56.3   | Malignant neoplasm of bilateral ovaries                             | Diagnosis     | ICD-10-CM |
| C56.9   | Malignant neoplasm of unspecified ovary                             | Diagnosis     | ICD-10-CM |
| C57.0   | Malignant neoplasm of fallopian tube                                | Diagnosis     | ICD-10-CM |
| C57.00  | Malignant neoplasm of unspecified fallopian tube                    | Diagnosis     | ICD-10-CM |
| C57.01  | Malignant neoplasm of right fallopian tube                          | Diagnosis     | ICD-10-CM |
| C57.02  | Malignant neoplasm of left fallopian tube                           | Diagnosis     | ICD-10-CM |
| C57.1   | Malignant neoplasm of broad ligament                                | Diagnosis     | ICD-10-CM |
| C57.10  | Malignant neoplasm of unspecified broad ligament                    | Diagnosis     | ICD-10-CM |
| C57.11  | Malignant neoplasm of right broad ligament                          | Diagnosis     | ICD-10-CM |
| C57.12  | Malignant neoplasm of left broad ligament                           | Diagnosis     | ICD-10-CM |
| C57.2   | Malignant neoplasm of round ligament                                | Diagnosis     | ICD-10-CM |
| C57.20  | Malignant neoplasm of unspecified round ligament                    | Diagnosis     | ICD-10-CM |
| C57.21  | Malignant neoplasm of right round ligament                          | Diagnosis     | ICD-10-CM |
| C57.22  | Malignant neoplasm of left round ligament                           | Diagnosis     | ICD-10-CM |
| C57.3   | Malignant neoplasm of parametrium                                   | Diagnosis     | ICD-10-CM |
| C57.4   | Malignant neoplasm of uterine adnexa, unspecified                   | Diagnosis     | ICD-10-CM |
| C57.7   | Malignant neoplasm of other specified female genital organs         | Diagnosis     | ICD-10-CM |
| C57.8   | Malignant neoplasm of overlapping sites of female genital organs    | Diagnosis     | ICD-10-CM |
| C57.9   | Malignant neoplasm of female genital organ, unspecified             | Diagnosis     | ICD-10-CM |
| C60.0   | Malignant neoplasm of prepuce                                       | Diagnosis     | ICD-10-CM |
| C60.1   | Malignant neoplasm of glans penis                                   | Diagnosis     | ICD-10-CM |
| C60.2   | Malignant neoplasm of body of penis                                 | Diagnosis     | ICD-10-CM |
| C60.8   | Malignant neoplasm of overlapping sites of penis                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description  | Code Category | Code Type |
|--------|--|---------------|-----------|
| C60.9  | Malignant neoplasm of penis, unspecified   | Diagnosis     | ICD-10-CM |
| C62.0  | Malignant neoplasm of undescended testis   | Diagnosis     | ICD-10-CM |
| C62.00 | Malignant neoplasm of unspecified undescended testis                                   | Diagnosis     | ICD-10-CM |
| C62.01 | Malignant neoplasm of undescended right testis   | Diagnosis     | ICD-10-CM |
| C62.02 | Malignant neoplasm of undescended left testis  | Diagnosis     | ICD-10-CM |
| C62.1  | Malignant neoplasm of descended testis   | Diagnosis     | ICD-10-CM |
| C62.10 | Malignant neoplasm of unspecified descended testis                                     | Diagnosis     | ICD-10-CM |
| C62.11 | Malignant neoplasm of descended right testis   | Diagnosis     | ICD-10-CM |
| C62.12 | Malignant neoplasm of descended left testis  | Diagnosis     | ICD-10-CM |
| C62.9  | Malignant neoplasm of testis, unspecified whether descended or undescended             | Diagnosis     | ICD-10-CM |
| C62.90 | Malignant neoplasm of unspecified testis, unspecified whether descended or undescended | Diagnosis     | ICD-10-CM |
| C62.91 | Malignant neoplasm of right testis, unspecified whether descended or undescended       | Diagnosis     | ICD-10-CM |
| C62.92 | Malignant neoplasm of left testis, unspecified whether descended or undescended        | Diagnosis     | ICD-10-CM |
| C63.0  | Malignant neoplasm of epididymis   | Diagnosis     | ICD-10-CM |
| C63.00 | Malignant neoplasm of unspecified epididymis   | Diagnosis     | ICD-10-CM |
| C63.01 | Malignant neoplasm of right epididymis   | Diagnosis     | ICD-10-CM |
| C63.02 | Malignant neoplasm of left epididymis  | Diagnosis     | ICD-10-CM |
| C63.1  | Malignant neoplasm of spermatic cord   | Diagnosis     | ICD-10-CM |
| C63.10 | Malignant neoplasm of unspecified spermatic cord                                       | Diagnosis     | ICD-10-CM |
| C63.11 | Malignant neoplasm of right spermatic cord   | Diagnosis     | ICD-10-CM |
| C63.12 | Malignant neoplasm of left spermatic cord  | Diagnosis     | ICD-10-CM |
| C63.2  | Malignant neoplasm of scrotum  | Diagnosis     | ICD-10-CM |
| C63.7  | Malignant neoplasm of other specified male genital organs                              | Diagnosis     | ICD-10-CM |
| C63.8  | Malignant neoplasm of overlapping sites of male genital organs                         | Diagnosis     | ICD-10-CM |
| C63.9  | Malignant neoplasm of male genital organ, unspecified                                  | Diagnosis     | ICD-10-CM |
| C64.1  | Malignant neoplasm of right kidney, except renal pelvis                                | Diagnosis     | ICD-10-CM |
| C64.2  | Malignant neoplasm of left kidney, except renal pelvis                                 | Diagnosis     | ICD-10-CM |
| C64.9  | Malignant neoplasm of unspecified kidney, except renal pelvis                          | Diagnosis     | ICD-10-CM |
| C65.1  | Malignant neoplasm of right renal pelvis   | Diagnosis     | ICD-10-CM |
| C65.2  | Malignant neoplasm of left renal pelvis  | Diagnosis     | ICD-10-CM |
| C65.9  | Malignant neoplasm of unspecified renal pelvis   | Diagnosis     | ICD-10-CM |
| C66.1  | Malignant neoplasm of right ureter   | Diagnosis     | ICD-10-CM |
| C66.2  | Malignant neoplasm of left ureter  | Diagnosis     | ICD-10-CM |
| C66.9  | Malignant neoplasm of unspecified ureter   | Diagnosis     | ICD-10-CM |
| C67.0  | Malignant neoplasm of trigone of bladder   | Diagnosis     | ICD-10-CM |
| C67.1  | Malignant neoplasm of dome of bladder  | Diagnosis     | ICD-10-CM |
| C67.2  | Malignant neoplasm of lateral wall of bladder  | Diagnosis     | ICD-10-CM |
| C67.3  | Malignant neoplasm of anterior wall of bladder   | Diagnosis     | ICD-10-CM |
| C67.4  | Malignant neoplasm of posterior wall of bladder  | Diagnosis     | ICD-10-CM |
| C67.5  | Malignant neoplasm of bladder neck   | Diagnosis     | ICD-10-CM |
| C67.6  | Malignant neoplasm of ureteric orifice   | Diagnosis     | ICD-10-CM |
| C67.7  | Malignant neoplasm of urachus  | Diagnosis     | ICD-10-CM |
| C67.8  | Malignant neoplasm of overlapping sites of bladder                                     | Diagnosis     | ICD-10-CM |
| C67.9  | Malignant neoplasm of bladder, unspecified   | Diagnosis     | ICD-10-CM |
| C68.0  | Malignant neoplasm of urethra  | Diagnosis     | ICD-10-CM |
| C68.1  | Malignant neoplasm of paraurethral glands  | Diagnosis     | ICD-10-CM |
| C68.8  | Malignant neoplasm of overlapping sites of urinary organs                              | Diagnosis     | ICD-10-CM |
| C68.9  | Malignant neoplasm of urinary organ, unspecified                                       | Diagnosis     | ICD-10-CM |
| C69.0  | Malignant neoplasm of conjunctiva  | Diagnosis     | ICD-10-CM |
| C69.00 | Malignant neoplasm of unspecified conjunctiva  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description   | Code Category | Code Type |
|--------|---|---------------|-----------|
| C69.01 | Malignant neoplasm of right conjunctiva                               | Diagnosis     | ICD-10-CM |
| C69.02 | Malignant neoplasm of left conjunctiva                                | Diagnosis     | ICD-10-CM |
| C69.1  | Malignant neoplasm of cornea  | Diagnosis     | ICD-10-CM |
| C69.10 | Malignant neoplasm of unspecified cornea                              | Diagnosis     | ICD-10-CM |
| C69.11 | Malignant neoplasm of right cornea                                    | Diagnosis     | ICD-10-CM |
| C69.12 | Malignant neoplasm of left cornea                                     | Diagnosis     | ICD-10-CM |
| C69.2  | Malignant neoplasm of retina  | Diagnosis     | ICD-10-CM |
| C69.20 | Malignant neoplasm of unspecified retina                              | Diagnosis     | ICD-10-CM |
| C69.21 | Malignant neoplasm of right retina                                    | Diagnosis     | ICD-10-CM |
| C69.22 | Malignant neoplasm of left retina                                     | Diagnosis     | ICD-10-CM |
| C69.3  | Malignant neoplasm of choroid   | Diagnosis     | ICD-10-CM |
| C69.30 | Malignant neoplasm of unspecified choroid                             | Diagnosis     | ICD-10-CM |
| C69.31 | Malignant neoplasm of right choroid                                   | Diagnosis     | ICD-10-CM |
| C69.32 | Malignant neoplasm of left choroid                                    | Diagnosis     | ICD-10-CM |
| C69.4  | Malignant neoplasm of ciliary body                                    | Diagnosis     | ICD-10-CM |
| C69.40 | Malignant neoplasm of unspecified ciliary body                        | Diagnosis     | ICD-10-CM |
| C69.41 | Malignant neoplasm of right ciliary body                              | Diagnosis     | ICD-10-CM |
| C69.42 | Malignant neoplasm of left ciliary body                               | Diagnosis     | ICD-10-CM |
| C69.5  | Malignant neoplasm of lacrimal gland and duct                         | Diagnosis     | ICD-10-CM |
| C69.50 | Malignant neoplasm of unspecified lacrimal gland and duct             | Diagnosis     | ICD-10-CM |
| C69.51 | Malignant neoplasm of right lacrimal gland and duct                   | Diagnosis     | ICD-10-CM |
| C69.52 | Malignant neoplasm of left lacrimal gland and duct                    | Diagnosis     | ICD-10-CM |
| C69.6  | Malignant neoplasm of orbit   | Diagnosis     | ICD-10-CM |
| C69.60 | Malignant neoplasm of unspecified orbit                               | Diagnosis     | ICD-10-CM |
| C69.61 | Malignant neoplasm of right orbit                                     | Diagnosis     | ICD-10-CM |
| C69.62 | Malignant neoplasm of left orbit                                      | Diagnosis     | ICD-10-CM |
| C69.8  | Malignant neoplasm of overlapping sites of eye and adnexa             | Diagnosis     | ICD-10-CM |
| C69.80 | Malignant neoplasm of overlapping sites of unspecified eye and adnexa | Diagnosis     | ICD-10-CM |
| C69.81 | Malignant neoplasm of overlapping sites of right eye and adnexa       | Diagnosis     | ICD-10-CM |
| C69.82 | Malignant neoplasm of overlapping sites of left eye and adnexa        | Diagnosis     | ICD-10-CM |
| C69.9  | Malignant neoplasm of unspecified site of eye                         | Diagnosis     | ICD-10-CM |
| C69.90 | Malignant neoplasm of unspecified site of unspecified eye             | Diagnosis     | ICD-10-CM |
| C69.91 | Malignant neoplasm of unspecified site of right eye                   | Diagnosis     | ICD-10-CM |
| C69.92 | Malignant neoplasm of unspecified site of left eye                    | Diagnosis     | ICD-10-CM |
| C70.0  | Malignant neoplasm of cerebral meninges                               | Diagnosis     | ICD-10-CM |
| C70.1  | Malignant neoplasm of spinal meninges                                 | Diagnosis     | ICD-10-CM |
| C70.9  | Malignant neoplasm of meninges, unspecified                           | Diagnosis     | ICD-10-CM |
| C71.0  | Malignant neoplasm of cerebrum, except lobes and ventricles           | Diagnosis     | ICD-10-CM |
| C71.1  | Malignant neoplasm of frontal lobe                                    | Diagnosis     | ICD-10-CM |
| C71.2  | Malignant neoplasm of temporal lobe                                   | Diagnosis     | ICD-10-CM |
| C71.3  | Malignant neoplasm of parietal lobe                                   | Diagnosis     | ICD-10-CM |
| C71.4  | Malignant neoplasm of occipital lobe                                  | Diagnosis     | ICD-10-CM |
| C71.5  | Malignant neoplasm of cerebral ventricle                              | Diagnosis     | ICD-10-CM |
| C71.6  | Malignant neoplasm of cerebellum                                      | Diagnosis     | ICD-10-CM |
| C71.7  | Malignant neoplasm of brain stem                                      | Diagnosis     | ICD-10-CM |
| C71.8  | Malignant neoplasm of overlapping sites of brain                      | Diagnosis     | ICD-10-CM |
| C71.9  | Malignant neoplasm of brain, unspecified                              | Diagnosis     | ICD-10-CM |
| C72.0  | Malignant neoplasm of spinal cord                                     | Diagnosis     | ICD-10-CM |
| C72.1  | Malignant neoplasm of cauda equina                                    | Diagnosis     | ICD-10-CM |
| C72.2  | Malignant neoplasm of olfactory nerve                                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description   | Code Category | Code Type |
|--------|---|---------------|-----------|
| C72.20 | Malignant neoplasm of unspecified olfactory nerve                   | Diagnosis     | ICD-10-CM |
| C72.21 | Malignant neoplasm of right olfactory nerve                         | Diagnosis     | ICD-10-CM |
| C72.22 | Malignant neoplasm of left olfactory nerve                          | Diagnosis     | ICD-10-CM |
| C72.3  | Malignant neoplasm of optic nerve                                   | Diagnosis     | ICD-10-CM |
| C72.30 | Malignant neoplasm of unspecified optic nerve                       | Diagnosis     | ICD-10-CM |
| C72.31 | Malignant neoplasm of right optic nerve                             | Diagnosis     | ICD-10-CM |
| C72.32 | Malignant neoplasm of left optic nerve                              | Diagnosis     | ICD-10-CM |
| C72.4  | Malignant neoplasm of acoustic nerve                                | Diagnosis     | ICD-10-CM |
| C72.40 | Malignant neoplasm of unspecified acoustic nerve                    | Diagnosis     | ICD-10-CM |
| C72.41 | Malignant neoplasm of right acoustic nerve                          | Diagnosis     | ICD-10-CM |
| C72.42 | Malignant neoplasm of left acoustic nerve                           | Diagnosis     | ICD-10-CM |
| C72.5  | Malignant neoplasm of other and unspecified cranial nerves          | Diagnosis     | ICD-10-CM |
| C72.50 | Malignant neoplasm of unspecified cranial nerve                     | Diagnosis     | ICD-10-CM |
| C72.59 | Malignant neoplasm of other cranial nerves                          | Diagnosis     | ICD-10-CM |
| C72.9  | Malignant neoplasm of central nervous system, unspecified           | Diagnosis     | ICD-10-CM |
| C74.0  | Malignant neoplasm of cortex of adrenal gland                       | Diagnosis     | ICD-10-CM |
| C74.00 | Malignant neoplasm of cortex of unspecified adrenal gland           | Diagnosis     | ICD-10-CM |
| C74.01 | Malignant neoplasm of cortex of right adrenal gland                 | Diagnosis     | ICD-10-CM |
| C74.02 | Malignant neoplasm of cortex of left adrenal gland                  | Diagnosis     | ICD-10-CM |
| C74.1  | Malignant neoplasm of medulla of adrenal gland                      | Diagnosis     | ICD-10-CM |
| C74.10 | Malignant neoplasm of medulla of unspecified adrenal gland          | Diagnosis     | ICD-10-CM |
| C74.11 | Malignant neoplasm of medulla of right adrenal gland                | Diagnosis     | ICD-10-CM |
| C74.12 | Malignant neoplasm of medulla of left adrenal gland                 | Diagnosis     | ICD-10-CM |
| C74.9  | Malignant neoplasm of unspecified part of adrenal gland             | Diagnosis     | ICD-10-CM |
| C74.90 | Malignant neoplasm of unspecified part of unspecified adrenal gland | Diagnosis     | ICD-10-CM |
| C74.91 | Malignant neoplasm of unspecified part of right adrenal gland       | Diagnosis     | ICD-10-CM |
| C74.92 | Malignant neoplasm of unspecified part of left adrenal gland        | Diagnosis     | ICD-10-CM |
| C75.0  | Malignant neoplasm of parathyroid gland                             | Diagnosis     | ICD-10-CM |
| C75.1  | Malignant neoplasm of pituitary gland                               | Diagnosis     | ICD-10-CM |
| C75.2  | Malignant neoplasm of craniopharyngeal duct                         | Diagnosis     | ICD-10-CM |
| C75.3  | Malignant neoplasm of pineal gland                                  | Diagnosis     | ICD-10-CM |
| C75.4  | Malignant neoplasm of carotid body                                  | Diagnosis     | ICD-10-CM |
| C75.5  | Malignant neoplasm of aortic body and other paraganglia             | Diagnosis     | ICD-10-CM |
| C75.8  | Malignant neoplasm with pluriglandular involvement, unspecified     | Diagnosis     | ICD-10-CM |
| C75.9  | Malignant neoplasm of endocrine gland, unspecified                  | Diagnosis     | ICD-10-CM |
| C76.0  | Malignant neoplasm of head, face and neck                           | Diagnosis     | ICD-10-CM |
| C76.1  | Malignant neoplasm of thorax  | Diagnosis     | ICD-10-CM |
| C76.2  | Malignant neoplasm of abdomen                                       | Diagnosis     | ICD-10-CM |
| C76.3  | Malignant neoplasm of pelvis  | Diagnosis     | ICD-10-CM |
| C76.4  | Malignant neoplasm of upper limb                                    | Diagnosis     | ICD-10-CM |
| C76.40 | Malignant neoplasm of unspecified upper limb                        | Diagnosis     | ICD-10-CM |
| C76.41 | Malignant neoplasm of right upper limb                              | Diagnosis     | ICD-10-CM |
| C76.42 | Malignant neoplasm of left upper limb                               | Diagnosis     | ICD-10-CM |
| C76.5  | Malignant neoplasm of lower limb                                    | Diagnosis     | ICD-10-CM |
| C76.50 | Malignant neoplasm of unspecified lower limb                        | Diagnosis     | ICD-10-CM |
| C76.51 | Malignant neoplasm of right lower limb                              | Diagnosis     | ICD-10-CM |
| C76.52 | Malignant neoplasm of left lower limb                               | Diagnosis     | ICD-10-CM |
| C76.8  | Malignant neoplasm of other specified ill-defined sites             | Diagnosis     | ICD-10-CM |
| C81.0  | Nodular lymphocyte predominant Hodgkin lymphoma                     | Diagnosis     | ICD-10-CM |
| C81.00 | Nodular lymphocyte predominant Hodgkin lymphoma, unspecified site   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description  | Code Category | Code Type |
|--------|--|---------------|-----------|
| C81.01 | Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of head, face, and neck           | Diagnosis     | ICD-10-CM |
| C81.02 | Nodular lymphocyte predominant Hodgkin lymphoma, intrathoracic lymph nodes                     | Diagnosis     | ICD-10-CM |
| C81.03 | Nodular lymphocyte predominant Hodgkin lymphoma, intra-abdominal lymph nodes                   | Diagnosis     | ICD-10-CM |
| C81.04 | Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of axilla and upper limb          | Diagnosis     | ICD-10-CM |
| C81.05 | Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of inguinal region and lower limb | Diagnosis     | ICD-10-CM |
| C81.06 | Nodular lymphocyte predominant Hodgkin lymphoma, intrapelvic lymph nodes                       | Diagnosis     | ICD-10-CM |
| C81.07 | Nodular lymphocyte predominant Hodgkin lymphoma, spleen  | Diagnosis     | ICD-10-CM |
| C81.08 | Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of multiple sites                 | Diagnosis     | ICD-10-CM |
| C81.09 | Nodular lymphocyte predominant Hodgkin lymphoma, extranodal and solid organ sites              | Diagnosis     | ICD-10-CM |
| C81.1  | Nodular sclerosis Hodgkin lymphoma   | Diagnosis     | ICD-10-CM |
| C81.10 | Nodular sclerosis Hodgkin lymphoma, unspecified site   | Diagnosis     | ICD-10-CM |
| C81.11 | Nodular sclerosis Hodgkin lymphoma, lymph nodes of head, face, and neck                        | Diagnosis     | ICD-10-CM |
| C81.12 | Nodular sclerosis Hodgkin lymphoma, intrathoracic lymph nodes                                  | Diagnosis     | ICD-10-CM |
| C81.13 | Nodular sclerosis Hodgkin lymphoma, intra-abdominal lymph nodes                                | Diagnosis     | ICD-10-CM |
| C81.14 | Nodular sclerosis Hodgkin lymphoma, lymph nodes of axilla and upper limb                       | Diagnosis     | ICD-10-CM |
| C81.15 | Nodular sclerosis Hodgkin lymphoma, lymph nodes of inguinal region and lower limb              | Diagnosis     | ICD-10-CM |
| C81.16 | Nodular sclerosis Hodgkin lymphoma, intrapelvic lymph nodes                                    | Diagnosis     | ICD-10-CM |
| C81.17 | Nodular sclerosis Hodgkin lymphoma, spleen   | Diagnosis     | ICD-10-CM |
| C81.18 | Nodular sclerosis Hodgkin lymphoma, lymph nodes of multiple sites                              | Diagnosis     | ICD-10-CM |
| C81.19 | Nodular sclerosis Hodgkin lymphoma, extranodal and solid organ sites                           | Diagnosis     | ICD-10-CM |
| C81.2  | Mixed cellularity Hodgkin lymphoma   | Diagnosis     | ICD-10-CM |
| C81.20 | Mixed cellularity Hodgkin lymphoma, unspecified site   | Diagnosis     | ICD-10-CM |
| C81.21 | Mixed cellularity Hodgkin lymphoma, lymph nodes of head, face, and neck                        | Diagnosis     | ICD-10-CM |
| C81.22 | Mixed cellularity Hodgkin lymphoma, intrathoracic lymph nodes                                  | Diagnosis     | ICD-10-CM |
| C81.23 | Mixed cellularity Hodgkin lymphoma, intra-abdominal lymph nodes                                | Diagnosis     | ICD-10-CM |
| C81.24 | Mixed cellularity Hodgkin lymphoma, lymph nodes of axilla and upper limb                       | Diagnosis     | ICD-10-CM |
| C81.25 | Mixed cellularity Hodgkin lymphoma, lymph nodes of inguinal region and lower limb              | Diagnosis     | ICD-10-CM |
| C81.26 | Mixed cellularity Hodgkin lymphoma, intrapelvic lymph nodes                                    | Diagnosis     | ICD-10-CM |
| C81.27 | Mixed cellularity Hodgkin lymphoma, spleen   | Diagnosis     | ICD-10-CM |
| C81.28 | Mixed cellularity Hodgkin lymphoma, lymph nodes of multiple sites                              | Diagnosis     | ICD-10-CM |
| C81.29 | Mixed cellularity Hodgkin lymphoma, extranodal and solid organ sites                           | Diagnosis     | ICD-10-CM |
| C81.3  | Lymphocyte depleted Hodgkin lymphoma   | Diagnosis     | ICD-10-CM |
| C81.30 | Lymphocyte depleted Hodgkin lymphoma, unspecified site   | Diagnosis     | ICD-10-CM |
| C81.31 | Lymphocyte depleted Hodgkin lymphoma, lymph nodes of head, face, and neck                      | Diagnosis     | ICD-10-CM |
| C81.32 | Lymphocyte depleted Hodgkin lymphoma, intrathoracic lymph nodes                                | Diagnosis     | ICD-10-CM |
| C81.33 | Lymphocyte depleted Hodgkin lymphoma, intra-abdominal lymph nodes                              | Diagnosis     | ICD-10-CM |
| C81.34 | Lymphocyte depleted Hodgkin lymphoma, lymph nodes of axilla and upper limb                     | Diagnosis     | ICD-10-CM |
| C81.35 | Lymphocyte depleted Hodgkin lymphoma, lymph nodes of inguinal region and lower limb            | Diagnosis     | ICD-10-CM |
| C81.36 | Lymphocyte depleted Hodgkin lymphoma, intrapelvic lymph nodes                                  | Diagnosis     | ICD-10-CM |
| C81.37 | Lymphocyte depleted Hodgkin lymphoma, spleen   | Diagnosis     | ICD-10-CM |
| C81.38 | Lymphocyte depleted Hodgkin lymphoma, lymph nodes of multiple sites                            | Diagnosis     | ICD-10-CM |
| C81.39 | Lymphocyte depleted Hodgkin lymphoma, extranodal and solid organ sites                         | Diagnosis     | ICD-10-CM |
| C81.4  | Lymphocyte-rich Hodgkin lymphoma   | Diagnosis     | ICD-10-CM |
| C81.40 | Lymphocyte-rich Hodgkin lymphoma, unspecified site   | Diagnosis     | ICD-10-CM |
| C81.41 | Lymphocyte-rich Hodgkin lymphoma, lymph nodes of head, face, and neck                          | Diagnosis     | ICD-10-CM |
| C81.42 | Lymphocyte-rich Hodgkin lymphoma, intrathoracic lymph nodes                                    | Diagnosis     | ICD-10-CM |
| C81.43 | Lymphocyte-rich Hodgkin lymphoma, intra-abdominal lymph nodes                                  | Diagnosis     | ICD-10-CM |
| C81.44 | Lymphocyte-rich Hodgkin lymphoma, lymph nodes of axilla and upper limb                         | Diagnosis     | ICD-10-CM |
| C81.45 | Lymphocyte-rich Hodgkin lymphoma, lymph nodes of inguinal region and lower limb                | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description  | Code Category | Code Type |
|--------|--|---------------|-----------|
| C81.46 | Lymphocyte-rich Hodgkin lymphoma, intrapelvic lymph nodes                    | Diagnosis     | ICD-10-CM |
| C81.47 | Lymphocyte-rich Hodgkin lymphoma, spleen                                     | Diagnosis     | ICD-10-CM |
| C81.48 | Lymphocyte-rich Hodgkin lymphoma, lymph nodes of multiple sites              | Diagnosis     | ICD-10-CM |
| C81.49 | Lymphocyte-rich Hodgkin lymphoma, extranodal and solid organ sites           | Diagnosis     | ICD-10-CM |
| C81.7  | Other Hodgkin lymphoma   | Diagnosis     | ICD-10-CM |
| C81.70 | Other Hodgkin lymphoma, unspecified site                                     | Diagnosis     | ICD-10-CM |
| C81.71 | Other Hodgkin lymphoma, lymph nodes of head, face, and neck                  | Diagnosis     | ICD-10-CM |
| C81.72 | Other Hodgkin lymphoma, intrathoracic lymph nodes                            | Diagnosis     | ICD-10-CM |
| C81.73 | Other Hodgkin lymphoma, intra-abdominal lymph nodes                          | Diagnosis     | ICD-10-CM |
| C81.74 | Other Hodgkin lymphoma, lymph nodes of axilla and upper limb                 | Diagnosis     | ICD-10-CM |
| C81.75 | Other Hodgkin lymphoma, lymph nodes of inguinal region and lower limb        | Diagnosis     | ICD-10-CM |
| C81.76 | Other Hodgkin lymphoma, intrapelvic lymph nodes                              | Diagnosis     | ICD-10-CM |
| C81.77 | Other Hodgkin lymphoma, spleen   | Diagnosis     | ICD-10-CM |
| C81.78 | Other Hodgkin lymphoma, lymph nodes of multiple sites                        | Diagnosis     | ICD-10-CM |
| C81.79 | Other Hodgkin lymphoma, extranodal and solid organ sites                     | Diagnosis     | ICD-10-CM |
| C81.9  | Hodgkin lymphoma, unspecified  | Diagnosis     | ICD-10-CM |
| C81.90 | Hodgkin lymphoma, unspecified, unspecified site                              | Diagnosis     | ICD-10-CM |
| C81.91 | Hodgkin lymphoma, unspecified, lymph nodes of head, face, and neck           | Diagnosis     | ICD-10-CM |
| C81.92 | Hodgkin lymphoma, unspecified, intrathoracic lymph nodes                     | Diagnosis     | ICD-10-CM |
| C81.93 | Hodgkin lymphoma, unspecified, intra-abdominal lymph nodes                   | Diagnosis     | ICD-10-CM |
| C81.94 | Hodgkin lymphoma, unspecified, lymph nodes of axilla and upper limb          | Diagnosis     | ICD-10-CM |
| C81.95 | Hodgkin lymphoma, unspecified, lymph nodes of inguinal region and lower limb | Diagnosis     | ICD-10-CM |
| C81.96 | Hodgkin lymphoma, unspecified, intrapelvic lymph nodes                       | Diagnosis     | ICD-10-CM |
| C81.97 | Hodgkin lymphoma, unspecified, spleen  | Diagnosis     | ICD-10-CM |
| C81.98 | Hodgkin lymphoma, unspecified, lymph nodes of multiple sites                 | Diagnosis     | ICD-10-CM |
| C81.99 | Hodgkin lymphoma, unspecified, extranodal and solid organ sites              | Diagnosis     | ICD-10-CM |
| C82.0  | Follicular lymphoma grade I  | Diagnosis     | ICD-10-CM |
| C82.00 | Follicular lymphoma grade I, unspecified site                                | Diagnosis     | ICD-10-CM |
| C82.01 | Follicular lymphoma grade I, lymph nodes of head, face, and neck             | Diagnosis     | ICD-10-CM |
| C82.02 | Follicular lymphoma grade I, intrathoracic lymph nodes                       | Diagnosis     | ICD-10-CM |
| C82.03 | Follicular lymphoma grade I, intra-abdominal lymph nodes                     | Diagnosis     | ICD-10-CM |
| C82.04 | Follicular lymphoma grade I, lymph nodes of axilla and upper limb            | Diagnosis     | ICD-10-CM |
| C82.05 | Follicular lymphoma grade I, lymph nodes of inguinal region and lower limb   | Diagnosis     | ICD-10-CM |
| C82.06 | Follicular lymphoma grade I, intrapelvic lymph nodes                         | Diagnosis     | ICD-10-CM |
| C82.07 | Follicular lymphoma grade I, spleen  | Diagnosis     | ICD-10-CM |
| C82.08 | Follicular lymphoma grade I, lymph nodes of multiple sites                   | Diagnosis     | ICD-10-CM |
| C82.09 | Follicular lymphoma grade I, extranodal and solid organ sites                | Diagnosis     | ICD-10-CM |
| C82.1  | Follicular lymphoma grade II   | Diagnosis     | ICD-10-CM |
| C82.10 | Follicular lymphoma grade II, unspecified site                               | Diagnosis     | ICD-10-CM |
| C82.11 | Follicular lymphoma grade II, lymph nodes of head, face, and neck            | Diagnosis     | ICD-10-CM |
| C82.12 | Follicular lymphoma grade II, intrathoracic lymph nodes                      | Diagnosis     | ICD-10-CM |
| C82.13 | Follicular lymphoma grade II, intra-abdominal lymph nodes                    | Diagnosis     | ICD-10-CM |
| C82.14 | Follicular lymphoma grade II, lymph nodes of axilla and upper limb           | Diagnosis     | ICD-10-CM |
| C82.15 | Follicular lymphoma grade II, lymph nodes of inguinal region and lower limb  | Diagnosis     | ICD-10-CM |
| C82.16 | Follicular lymphoma grade II, intrapelvic lymph nodes                        | Diagnosis     | ICD-10-CM |
| C82.17 | Follicular lymphoma grade II, spleen   | Diagnosis     | ICD-10-CM |
| C82.18 | Follicular lymphoma grade II, lymph nodes of multiple sites                  | Diagnosis     | ICD-10-CM |
| C82.19 | Follicular lymphoma grade II, extranodal and solid organ sites               | Diagnosis     | ICD-10-CM |
| C82.2  | Follicular lymphoma grade III, unspecified                                   | Diagnosis     | ICD-10-CM |
| C82.20 | Follicular lymphoma grade III, unspecified, unspecified site                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description   | Code Category | Code Type |
|--------|---|---------------|-----------|
| C82.21 | Follicular lymphoma grade III, unspecified, lymph nodes of head, face, and neck           | Diagnosis     | ICD-10-CM |
| C82.22 | Follicular lymphoma grade III, unspecified, intrathoracic lymph nodes                     | Diagnosis     | ICD-10-CM |
| C82.23 | Follicular lymphoma grade III, unspecified, intra-abdominal lymph nodes                   | Diagnosis     | ICD-10-CM |
| C82.24 | Follicular lymphoma grade III, unspecified, lymph nodes of axilla and upper limb          | Diagnosis     | ICD-10-CM |
| C82.25 | Follicular lymphoma grade III, unspecified, lymph nodes of inguinal region and lower limb | Diagnosis     | ICD-10-CM |
| C82.26 | Follicular lymphoma grade III, unspecified, intrapelvic lymph nodes                       | Diagnosis     | ICD-10-CM |
| C82.27 | Follicular lymphoma grade III, unspecified, spleen  | Diagnosis     | ICD-10-CM |
| C82.28 | Follicular lymphoma grade III, unspecified, lymph nodes of multiple sites                 | Diagnosis     | ICD-10-CM |
| C82.29 | Follicular lymphoma grade III, unspecified, extranodal and solid organ sites              | Diagnosis     | ICD-10-CM |
| C82.3  | Follicular lymphoma grade IIIa  | Diagnosis     | ICD-10-CM |
| C82.30 | Follicular lymphoma grade IIIa, unspecified site  | Diagnosis     | ICD-10-CM |
| C82.31 | Follicular lymphoma grade IIIa, lymph nodes of head, face, and neck                       | Diagnosis     | ICD-10-CM |
| C82.32 | Follicular lymphoma grade IIIa, intrathoracic lymph nodes                                 | Diagnosis     | ICD-10-CM |
| C82.33 | Follicular lymphoma grade IIIa, intra-abdominal lymph nodes                               | Diagnosis     | ICD-10-CM |
| C82.34 | Follicular lymphoma grade IIIa, lymph nodes of axilla and upper limb                      | Diagnosis     | ICD-10-CM |
| C82.35 | Follicular lymphoma grade IIIa, lymph nodes of inguinal region and lower limb             | Diagnosis     | ICD-10-CM |
| C82.36 | Follicular lymphoma grade IIIa, intrapelvic lymph nodes                                   | Diagnosis     | ICD-10-CM |
| C82.37 | Follicular lymphoma grade IIIa, spleen  | Diagnosis     | ICD-10-CM |
| C82.38 | Follicular lymphoma grade IIIa, lymph nodes of multiple sites                             | Diagnosis     | ICD-10-CM |
| C82.39 | Follicular lymphoma grade IIIa, extranodal and solid organ sites                          | Diagnosis     | ICD-10-CM |
| C82.4  | Follicular lymphoma grade IIIb  | Diagnosis     | ICD-10-CM |
| C82.40 | Follicular lymphoma grade IIIb, unspecified site  | Diagnosis     | ICD-10-CM |
| C82.41 | Follicular lymphoma grade IIIb, lymph nodes of head, face, and neck                       | Diagnosis     | ICD-10-CM |
| C82.42 | Follicular lymphoma grade IIIb, intrathoracic lymph nodes                                 | Diagnosis     | ICD-10-CM |
| C82.43 | Follicular lymphoma grade IIIb, intra-abdominal lymph nodes                               | Diagnosis     | ICD-10-CM |
| C82.44 | Follicular lymphoma grade IIIb, lymph nodes of axilla and upper limb                      | Diagnosis     | ICD-10-CM |
| C82.45 | Follicular lymphoma grade IIIb, lymph nodes of inguinal region and lower limb             | Diagnosis     | ICD-10-CM |
| C82.46 | Follicular lymphoma grade IIIb, intrapelvic lymph nodes                                   | Diagnosis     | ICD-10-CM |
| C82.47 | Follicular lymphoma grade IIIb, spleen  | Diagnosis     | ICD-10-CM |
| C82.48 | Follicular lymphoma grade IIIb, lymph nodes of multiple sites                             | Diagnosis     | ICD-10-CM |
| C82.49 | Follicular lymphoma grade IIIb, extranodal and solid organ sites                          | Diagnosis     | ICD-10-CM |
| C82.5  | Diffuse follicle center lymphoma  | Diagnosis     | ICD-10-CM |
| C82.50 | Diffuse follicle center lymphoma, unspecified site  | Diagnosis     | ICD-10-CM |
| C82.51 | Diffuse follicle center lymphoma, lymph nodes of head, face, and neck                     | Diagnosis     | ICD-10-CM |
| C82.52 | Diffuse follicle center lymphoma, intrathoracic lymph nodes                               | Diagnosis     | ICD-10-CM |
| C82.53 | Diffuse follicle center lymphoma, intra-abdominal lymph nodes                             | Diagnosis     | ICD-10-CM |
| C82.54 | Diffuse follicle center lymphoma, lymph nodes of axilla and upper limb                    | Diagnosis     | ICD-10-CM |
| C82.55 | Diffuse follicle center lymphoma, lymph nodes of inguinal region and lower limb           | Diagnosis     | ICD-10-CM |
| C82.56 | Diffuse follicle center lymphoma, intrapelvic lymph nodes                                 | Diagnosis     | ICD-10-CM |
| C82.57 | Diffuse follicle center lymphoma, spleen  | Diagnosis     | ICD-10-CM |
| C82.58 | Diffuse follicle center lymphoma, lymph nodes of multiple sites                           | Diagnosis     | ICD-10-CM |
| C82.59 | Diffuse follicle center lymphoma, extranodal and solid organ sites                        | Diagnosis     | ICD-10-CM |
| C82.6  | Cutaneous follicle center lymphoma  | Diagnosis     | ICD-10-CM |
| C82.60 | Cutaneous follicle center lymphoma, unspecified site                                      | Diagnosis     | ICD-10-CM |
| C82.61 | Cutaneous follicle center lymphoma, lymph nodes of head, face, and neck                   | Diagnosis     | ICD-10-CM |
| C82.62 | Cutaneous follicle center lymphoma, intrathoracic lymph nodes                             | Diagnosis     | ICD-10-CM |
| C82.63 | Cutaneous follicle center lymphoma, intra-abdominal lymph nodes                           | Diagnosis     | ICD-10-CM |
| C82.64 | Cutaneous follicle center lymphoma, lymph nodes of axilla and upper limb                  | Diagnosis     | ICD-10-CM |
| C82.65 | Cutaneous follicle center lymphoma, lymph nodes of inguinal region and lower limb         | Diagnosis     | ICD-10-CM |
| C82.66 | Cutaneous follicle center lymphoma, intrapelvic lymph nodes                               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description   | Code Category | Code Type |
|--------|---|---------------|-----------|
| C82.67 | Cutaneous follicle center lymphoma, spleen  | Diagnosis     | ICD-10-CM |
| C82.68 | Cutaneous follicle center lymphoma, lymph nodes of multiple sites                 | Diagnosis     | ICD-10-CM |
| C82.69 | Cutaneous follicle center lymphoma, extranodal and solid organ sites              | Diagnosis     | ICD-10-CM |
| C82.8  | Other types of follicular lymphoma  | Diagnosis     | ICD-10-CM |
| C82.80 | Other types of follicular lymphoma, unspecified site                              | Diagnosis     | ICD-10-CM |
| C82.81 | Other types of follicular lymphoma, lymph nodes of head, face, and neck           | Diagnosis     | ICD-10-CM |
| C82.82 | Other types of follicular lymphoma, intrathoracic lymph nodes                     | Diagnosis     | ICD-10-CM |
| C82.83 | Other types of follicular lymphoma, intra-abdominal lymph nodes                   | Diagnosis     | ICD-10-CM |
| C82.84 | Other types of follicular lymphoma, lymph nodes of axilla and upper limb          | Diagnosis     | ICD-10-CM |
| C82.85 | Other types of follicular lymphoma, lymph nodes of inguinal region and lower limb | Diagnosis     | ICD-10-CM |
| C82.86 | Other types of follicular lymphoma, intrapelvic lymph nodes                       | Diagnosis     | ICD-10-CM |
| C82.87 | Other types of follicular lymphoma, spleen  | Diagnosis     | ICD-10-CM |
| C82.88 | Other types of follicular lymphoma, lymph nodes of multiple sites                 | Diagnosis     | ICD-10-CM |
| C82.89 | Other types of follicular lymphoma, extranodal and solid organ sites              | Diagnosis     | ICD-10-CM |
| C82.9  | Follicular lymphoma, unspecified  | Diagnosis     | ICD-10-CM |
| C82.90 | Follicular lymphoma, unspecified, unspecified site                                | Diagnosis     | ICD-10-CM |
| C82.91 | Follicular lymphoma, unspecified, lymph nodes of head, face, and neck             | Diagnosis     | ICD-10-CM |
| C82.92 | Follicular lymphoma, unspecified, intrathoracic lymph nodes                       | Diagnosis     | ICD-10-CM |
| C82.93 | Follicular lymphoma, unspecified, intra-abdominal lymph nodes                     | Diagnosis     | ICD-10-CM |
| C82.94 | Follicular lymphoma, unspecified, lymph nodes of axilla and upper limb            | Diagnosis     | ICD-10-CM |
| C82.95 | Follicular lymphoma, unspecified, lymph nodes of inguinal region and lower limb   | Diagnosis     | ICD-10-CM |
| C82.96 | Follicular lymphoma, unspecified, intrapelvic lymph nodes                         | Diagnosis     | ICD-10-CM |
| C82.97 | Follicular lymphoma, unspecified, spleen  | Diagnosis     | ICD-10-CM |
| C82.98 | Follicular lymphoma, unspecified, lymph nodes of multiple sites                   | Diagnosis     | ICD-10-CM |
| C82.99 | Follicular lymphoma, unspecified, extranodal and solid organ sites                | Diagnosis     | ICD-10-CM |
| C83.0  | Small cell B-cell lymphoma  | Diagnosis     | ICD-10-CM |
| C83.00 | Small cell B-cell lymphoma, unspecified site                                      | Diagnosis     | ICD-10-CM |
| C83.01 | Small cell B-cell lymphoma, lymph nodes of head, face, and neck                   | Diagnosis     | ICD-10-CM |
| C83.02 | Small cell B-cell lymphoma, intrathoracic lymph nodes                             | Diagnosis     | ICD-10-CM |
| C83.03 | Small cell B-cell lymphoma, intra-abdominal lymph nodes                           | Diagnosis     | ICD-10-CM |
| C83.04 | Small cell B-cell lymphoma, lymph nodes of axilla and upper limb                  | Diagnosis     | ICD-10-CM |
| C83.05 | Small cell B-cell lymphoma, lymph nodes of inguinal region and lower limb         | Diagnosis     | ICD-10-CM |
| C83.06 | Small cell B-cell lymphoma, intrapelvic lymph nodes                               | Diagnosis     | ICD-10-CM |
| C83.07 | Small cell B-cell lymphoma, spleen  | Diagnosis     | ICD-10-CM |
| C83.08 | Small cell B-cell lymphoma, lymph nodes of multiple sites                         | Diagnosis     | ICD-10-CM |
| C83.09 | Small cell B-cell lymphoma, extranodal and solid organ sites                      | Diagnosis     | ICD-10-CM |
| C83.1  | Mantle cell lymphoma  | Diagnosis     | ICD-10-CM |
| C83.10 | Mantle cell lymphoma, unspecified site  | Diagnosis     | ICD-10-CM |
| C83.11 | Mantle cell lymphoma, lymph nodes of head, face, and neck                         | Diagnosis     | ICD-10-CM |
| C83.12 | Mantle cell lymphoma, intrathoracic lymph nodes                                   | Diagnosis     | ICD-10-CM |
| C83.13 | Mantle cell lymphoma, intra-abdominal lymph nodes                                 | Diagnosis     | ICD-10-CM |
| C83.14 | Mantle cell lymphoma, lymph nodes of axilla and upper limb                        | Diagnosis     | ICD-10-CM |
| C83.15 | Mantle cell lymphoma, lymph nodes of inguinal region and lower limb               | Diagnosis     | ICD-10-CM |
| C83.16 | Mantle cell lymphoma, intrapelvic lymph nodes                                     | Diagnosis     | ICD-10-CM |
| C83.17 | Mantle cell lymphoma, spleen  | Diagnosis     | ICD-10-CM |
| C83.18 | Mantle cell lymphoma, lymph nodes of multiple sites                               | Diagnosis     | ICD-10-CM |
| C83.19 | Mantle cell lymphoma, extranodal and solid organ sites                            | Diagnosis     | ICD-10-CM |
| C83.3  | Diffuse large B-cell lymphoma   | Diagnosis     | ICD-10-CM |
| C83.30 | Diffuse large B-cell lymphoma, unspecified site                                   | Diagnosis     | ICD-10-CM |
| C83.31 | Diffuse large B-cell lymphoma, lymph nodes of head, face, and neck                | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description   | Code Category | Code Type |
|--------|---|---------------|-----------|
| C83.32 | Diffuse large B-cell lymphoma, intrathoracic lymph nodes                                      | Diagnosis     | ICD-10-CM |
| C83.33 | Diffuse large B-cell lymphoma, intra-abdominal lymph nodes                                    | Diagnosis     | ICD-10-CM |
| C83.34 | Diffuse large B-cell lymphoma, lymph nodes of axilla and upper limb                           | Diagnosis     | ICD-10-CM |
| C83.35 | Diffuse large B-cell lymphoma, lymph nodes of inguinal region and lower limb                  | Diagnosis     | ICD-10-CM |
| C83.36 | Diffuse large B-cell lymphoma, intrapelvic lymph nodes  | Diagnosis     | ICD-10-CM |
| C83.37 | Diffuse large B-cell lymphoma, spleen   | Diagnosis     | ICD-10-CM |
| C83.38 | Diffuse large B-cell lymphoma, lymph nodes of multiple sites                                  | Diagnosis     | ICD-10-CM |
| C83.39 | Diffuse large B-cell lymphoma, extranodal and solid organ sites                               | Diagnosis     | ICD-10-CM |
| C83.5  | Lymphoblastic (diffuse) lymphoma  | Diagnosis     | ICD-10-CM |
| C83.50 | Lymphoblastic (diffuse) lymphoma, unspecified site  | Diagnosis     | ICD-10-CM |
| C83.51 | Lymphoblastic (diffuse) lymphoma, lymph nodes of head, face, and neck                         | Diagnosis     | ICD-10-CM |
| C83.52 | Lymphoblastic (diffuse) lymphoma, intrathoracic lymph nodes                                   | Diagnosis     | ICD-10-CM |
| C83.53 | Lymphoblastic (diffuse) lymphoma, intra-abdominal lymph nodes                                 | Diagnosis     | ICD-10-CM |
| C83.54 | Lymphoblastic (diffuse) lymphoma, lymph nodes of axilla and upper limb                        | Diagnosis     | ICD-10-CM |
| C83.55 | Lymphoblastic (diffuse) lymphoma, lymph nodes of inguinal region and lower limb               | Diagnosis     | ICD-10-CM |
| C83.56 | Lymphoblastic (diffuse) lymphoma, intrapelvic lymph nodes                                     | Diagnosis     | ICD-10-CM |
| C83.57 | Lymphoblastic (diffuse) lymphoma, spleen  | Diagnosis     | ICD-10-CM |
| C83.58 | Lymphoblastic (diffuse) lymphoma, lymph nodes of multiple sites                               | Diagnosis     | ICD-10-CM |
| C83.59 | Lymphoblastic (diffuse) lymphoma, extranodal and solid organ sites                            | Diagnosis     | ICD-10-CM |
| C83.7  | Burkitt lymphoma  | Diagnosis     | ICD-10-CM |
| C83.70 | Burkitt lymphoma, unspecified site  | Diagnosis     | ICD-10-CM |
| C83.71 | Burkitt lymphoma, lymph nodes of head, face, and neck   | Diagnosis     | ICD-10-CM |
| C83.72 | Burkitt lymphoma, intrathoracic lymph nodes   | Diagnosis     | ICD-10-CM |
| C83.73 | Burkitt lymphoma, intra-abdominal lymph nodes   | Diagnosis     | ICD-10-CM |
| C83.74 | Burkitt lymphoma, lymph nodes of axilla and upper limb  | Diagnosis     | ICD-10-CM |
| C83.75 | Burkitt lymphoma, lymph nodes of inguinal region and lower limb                               | Diagnosis     | ICD-10-CM |
| C83.76 | Burkitt lymphoma, intrapelvic lymph nodes   | Diagnosis     | ICD-10-CM |
| C83.77 | Burkitt lymphoma, spleen  | Diagnosis     | ICD-10-CM |
| C83.78 | Burkitt lymphoma, lymph nodes of multiple sites   | Diagnosis     | ICD-10-CM |
| C83.79 | Burkitt lymphoma, extranodal and solid organ sites  | Diagnosis     | ICD-10-CM |
| C83.8  | Other non-follicular lymphoma   | Diagnosis     | ICD-10-CM |
| C83.80 | Other non-follicular lymphoma, unspecified site   | Diagnosis     | ICD-10-CM |
| C83.81 | Other non-follicular lymphoma, lymph nodes of head, face, and neck                            | Diagnosis     | ICD-10-CM |
| C83.82 | Other non-follicular lymphoma, intrathoracic lymph nodes                                      | Diagnosis     | ICD-10-CM |
| C83.83 | Other non-follicular lymphoma, intra-abdominal lymph nodes                                    | Diagnosis     | ICD-10-CM |
| C83.84 | Other non-follicular lymphoma, lymph nodes of axilla and upper limb                           | Diagnosis     | ICD-10-CM |
| C83.85 | Other non-follicular lymphoma, lymph nodes of inguinal region and lower limb                  | Diagnosis     | ICD-10-CM |
| C83.86 | Other non-follicular lymphoma, intrapelvic lymph nodes  | Diagnosis     | ICD-10-CM |
| C83.87 | Other non-follicular lymphoma, spleen   | Diagnosis     | ICD-10-CM |
| C83.88 | Other non-follicular lymphoma, lymph nodes of multiple sites                                  | Diagnosis     | ICD-10-CM |
| C83.89 | Other non-follicular lymphoma, extranodal and solid organ sites                               | Diagnosis     | ICD-10-CM |
| C83.9  | Non-follicular (diffuse) lymphoma, unspecified  | Diagnosis     | ICD-10-CM |
| C83.90 | Non-follicular (diffuse) lymphoma, unspecified, unspecified site                              | Diagnosis     | ICD-10-CM |
| C83.91 | Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of head, face, and neck           | Diagnosis     | ICD-10-CM |
| C83.92 | Non-follicular (diffuse) lymphoma, unspecified, intrathoracic lymph nodes                     | Diagnosis     | ICD-10-CM |
| C83.93 | Non-follicular (diffuse) lymphoma, unspecified, intra-abdominal lymph nodes                   | Diagnosis     | ICD-10-CM |
| C83.94 | Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of axilla and upper limb          | Diagnosis     | ICD-10-CM |
| C83.95 | Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of inguinal region and lower limb | Diagnosis     | ICD-10-CM |
| C83.96 | Non-follicular (diffuse) lymphoma, unspecified, intrapelvic lymph nodes                       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description   | Code Category | Code Type |
|--------|---|---------------|-----------|
| C83.97 | Non-follicular (diffuse) lymphoma, unspecified, spleen  | Diagnosis     | ICD-10-CM |
| C83.98 | Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of multiple sites                       | Diagnosis     | ICD-10-CM |
| C83.99 | Non-follicular (diffuse) lymphoma, unspecified, extranodal and solid organ sites                    | Diagnosis     | ICD-10-CM |
| C84.0  | Mycosis fungoides   | Diagnosis     | ICD-10-CM |
| C84.00 | Mycosis fungoides, unspecified site   | Diagnosis     | ICD-10-CM |
| C84.01 | Mycosis fungoides, lymph nodes of head, face, and neck  | Diagnosis     | ICD-10-CM |
| C84.02 | Mycosis fungoides, intrathoracic lymph nodes  | Diagnosis     | ICD-10-CM |
| C84.03 | Mycosis fungoides, intra-abdominal lymph nodes  | Diagnosis     | ICD-10-CM |
| C84.04 | Mycosis fungoides, lymph nodes of axilla and upper limb   | Diagnosis     | ICD-10-CM |
| C84.05 | Mycosis fungoides, lymph nodes of inguinal region and lower limb                                    | Diagnosis     | ICD-10-CM |
| C84.06 | Mycosis fungoides, intrapelvic lymph nodes  | Diagnosis     | ICD-10-CM |
| C84.07 | Mycosis fungoides, spleen   | Diagnosis     | ICD-10-CM |
| C84.08 | Mycosis fungoides, lymph nodes of multiple sites  | Diagnosis     | ICD-10-CM |
| C84.09 | Mycosis fungoides, extranodal and solid organ sites   | Diagnosis     | ICD-10-CM |
| C84.1  | Sezary disease  | Diagnosis     | ICD-10-CM |
| C84.10 | Sezary disease, unspecified site  | Diagnosis     | ICD-10-CM |
| C84.11 | Sezary disease, lymph nodes of head, face, and neck   | Diagnosis     | ICD-10-CM |
| C84.12 | Sezary disease, intrathoracic lymph nodes   | Diagnosis     | ICD-10-CM |
| C84.13 | Sezary disease, intra-abdominal lymph nodes   | Diagnosis     | ICD-10-CM |
| C84.14 | Sezary disease, lymph nodes of axilla and upper limb  | Diagnosis     | ICD-10-CM |
| C84.15 | Sezary disease, lymph nodes of inguinal region and lower limb                                       | Diagnosis     | ICD-10-CM |
| C84.16 | Sezary disease, intrapelvic lymph nodes   | Diagnosis     | ICD-10-CM |
| C84.17 | Sezary disease, spleen  | Diagnosis     | ICD-10-CM |
| C84.18 | Sezary disease, lymph nodes of multiple sites   | Diagnosis     | ICD-10-CM |
| C84.19 | Sezary disease, extranodal and solid organ sites  | Diagnosis     | ICD-10-CM |
| C84.4  | Peripheral T-cell lymphoma, not elsewhere classified  | Diagnosis     | ICD-10-CM |
| C84.40 | Peripheral T-cell lymphoma, not elsewhere classified, unspecified site                              | Diagnosis     | ICD-10-CM |
| C84.41 | Peripheral T-cell lymphoma, not elsewhere classified, lymph nodes of head, face, and neck           | Diagnosis     | ICD-10-CM |
| C84.42 | Peripheral T-cell lymphoma, not elsewhere classified, intrathoracic lymph nodes                     | Diagnosis     | ICD-10-CM |
| C84.43 | Peripheral T-cell lymphoma, not elsewhere classified, intra-abdominal lymph nodes                   | Diagnosis     | ICD-10-CM |
| C84.44 | Peripheral T-cell lymphoma, not elsewhere classified, lymph nodes of axilla and upper limb          | Diagnosis     | ICD-10-CM |
| C84.45 | Peripheral T-cell lymphoma, not elsewhere classified, lymph nodes of inguinal region and lower limb | Diagnosis     | ICD-10-CM |
| C84.46 | Peripheral T-cell lymphoma, not elsewhere classified, intrapelvic lymph nodes                       | Diagnosis     | ICD-10-CM |
| C84.47 | Peripheral T-cell lymphoma, not elsewhere classified, spleen  | Diagnosis     | ICD-10-CM |
| C84.48 | Peripheral T-cell lymphoma, not elsewhere classified, lymph nodes of multiple sites                 | Diagnosis     | ICD-10-CM |
| C84.49 | Peripheral T-cell lymphoma, not elsewhere classified, extranodal and solid organ sites              | Diagnosis     | ICD-10-CM |
| C84.6  | Anaplastic large cell lymphoma, ALK-positive  | Diagnosis     | ICD-10-CM |
| C84.60 | Anaplastic large cell lymphoma, ALK-positive, unspecified site                                      | Diagnosis     | ICD-10-CM |
| C84.61 | Anaplastic large cell lymphoma, ALK-positive, lymph nodes of head, face, and neck                   | Diagnosis     | ICD-10-CM |
| C84.62 | Anaplastic large cell lymphoma, ALK-positive, intrathoracic lymph nodes                             | Diagnosis     | ICD-10-CM |
| C84.63 | Anaplastic large cell lymphoma, ALK-positive, intra-abdominal lymph nodes                           | Diagnosis     | ICD-10-CM |
| C84.64 | Anaplastic large cell lymphoma, ALK-positive, lymph nodes of axilla and upper limb                  | Diagnosis     | ICD-10-CM |
| C84.65 | Anaplastic large cell lymphoma, ALK-positive, lymph nodes of inguinal region and lower limb         | Diagnosis     | ICD-10-CM |
| C84.66 | Anaplastic large cell lymphoma, ALK-positive, intrapelvic lymph nodes                               | Diagnosis     | ICD-10-CM |
| C84.67 | Anaplastic large cell lymphoma, ALK-positive, spleen  | Diagnosis     | ICD-10-CM |
| C84.68 | Anaplastic large cell lymphoma, ALK-positive, lymph nodes of multiple sites                         | Diagnosis     | ICD-10-CM |
| C84.69 | Anaplastic large cell lymphoma, ALK-positive, extranodal and solid organ sites                      | Diagnosis     | ICD-10-CM |
| C84.7  | Anaplastic large cell lymphoma, ALK-negative  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description   | Code Category | Code Type |
|--------|---|---------------|-----------|
| C84.70 | Anaplastic large cell lymphoma, ALK-negative, unspecified site                              | Diagnosis     | ICD-10-CM |
| C84.71 | Anaplastic large cell lymphoma, ALK-negative, lymph nodes of head, face, and neck           | Diagnosis     | ICD-10-CM |
| C84.72 | Anaplastic large cell lymphoma, ALK-negative, intrathoracic lymph nodes                     | Diagnosis     | ICD-10-CM |
| C84.73 | Anaplastic large cell lymphoma, ALK-negative, intra-abdominal lymph nodes                   | Diagnosis     | ICD-10-CM |
| C84.74 | Anaplastic large cell lymphoma, ALK-negative, lymph nodes of axilla and upper limb          | Diagnosis     | ICD-10-CM |
| C84.75 | Anaplastic large cell lymphoma, ALK-negative, lymph nodes of inguinal region and lower limb | Diagnosis     | ICD-10-CM |
| C84.76 | Anaplastic large cell lymphoma, ALK-negative, intrapelvic lymph nodes                       | Diagnosis     | ICD-10-CM |
| C84.77 | Anaplastic large cell lymphoma, ALK-negative, spleen  | Diagnosis     | ICD-10-CM |
| C84.78 | Anaplastic large cell lymphoma, ALK-negative, lymph nodes of multiple sites                 | Diagnosis     | ICD-10-CM |
| C84.79 | Anaplastic large cell lymphoma, ALK-negative, extranodal and solid organ sites              | Diagnosis     | ICD-10-CM |
| C84.7A | Anaplastic large cell lymphoma, ALK-negative, breast  | Diagnosis     | ICD-10-CM |
| C84.9  | Mature T/NK-cell lymphomas, unspecified   | Diagnosis     | ICD-10-CM |
| C84.90 | Mature T/NK-cell lymphomas, unspecified, unspecified site                                   | Diagnosis     | ICD-10-CM |
| C84.91 | Mature T/NK-cell lymphomas, unspecified, lymph nodes of head, face, and neck                | Diagnosis     | ICD-10-CM |
| C84.92 | Mature T/NK-cell lymphomas, unspecified, intrathoracic lymph nodes                          | Diagnosis     | ICD-10-CM |
| C84.93 | Mature T/NK-cell lymphomas, unspecified, intra-abdominal lymph nodes                        | Diagnosis     | ICD-10-CM |
| C84.94 | Mature T/NK-cell lymphomas, unspecified, lymph nodes of axilla and upper limb               | Diagnosis     | ICD-10-CM |
| C84.95 | Mature T/NK-cell lymphomas, unspecified, lymph nodes of inguinal region and lower limb      | Diagnosis     | ICD-10-CM |
| C84.96 | Mature T/NK-cell lymphomas, unspecified, intrapelvic lymph nodes                            | Diagnosis     | ICD-10-CM |
| C84.97 | Mature T/NK-cell lymphomas, unspecified, spleen   | Diagnosis     | ICD-10-CM |
| C84.98 | Mature T/NK-cell lymphomas, unspecified, lymph nodes of multiple sites                      | Diagnosis     | ICD-10-CM |
| C84.99 | Mature T/NK-cell lymphomas, unspecified, extranodal and solid organ sites                   | Diagnosis     | ICD-10-CM |
| C84.A  | Cutaneous T-cell lymphoma, unspecified  | Diagnosis     | ICD-10-CM |
| C84.A0 | Cutaneous T-cell lymphoma, unspecified, unspecified site                                    | Diagnosis     | ICD-10-CM |
| C84.A1 | Cutaneous T-cell lymphoma, unspecified, lymph nodes of head, face, and neck                 | Diagnosis     | ICD-10-CM |
| C84.A2 | Cutaneous T-cell lymphoma, unspecified, intrathoracic lymph nodes                           | Diagnosis     | ICD-10-CM |
| C84.A3 | Cutaneous T-cell lymphoma, unspecified, intra-abdominal lymph nodes                         | Diagnosis     | ICD-10-CM |
| C84.A4 | Cutaneous T-cell lymphoma, unspecified, lymph nodes of axilla and upper limb                | Diagnosis     | ICD-10-CM |
| C84.A5 | Cutaneous T-cell lymphoma, unspecified, lymph nodes of inguinal region and lower limb       | Diagnosis     | ICD-10-CM |
| C84.A6 | Cutaneous T-cell lymphoma, unspecified, intrapelvic lymph nodes                             | Diagnosis     | ICD-10-CM |
| C84.A7 | Cutaneous T-cell lymphoma, unspecified, spleen  | Diagnosis     | ICD-10-CM |
| C84.A8 | Cutaneous T-cell lymphoma, unspecified, lymph nodes of multiple sites                       | Diagnosis     | ICD-10-CM |
| C84.A9 | Cutaneous T-cell lymphoma, unspecified, extranodal and solid organ sites                    | Diagnosis     | ICD-10-CM |
| C84.Z  | Other mature T/NK-cell lymphomas  | Diagnosis     | ICD-10-CM |
| C84.Z0 | Other mature T/NK-cell lymphomas, unspecified site  | Diagnosis     | ICD-10-CM |
| C84.Z1 | Other mature T/NK-cell lymphomas, lymph nodes of head, face, and neck                       | Diagnosis     | ICD-10-CM |
| C84.Z2 | Other mature T/NK-cell lymphomas, intrathoracic lymph nodes                                 | Diagnosis     | ICD-10-CM |
| C84.Z3 | Other mature T/NK-cell lymphomas, intra-abdominal lymph nodes                               | Diagnosis     | ICD-10-CM |
| C84.Z4 | Other mature T/NK-cell lymphomas, lymph nodes of axilla and upper limb                      | Diagnosis     | ICD-10-CM |
| C84.Z5 | Other mature T/NK-cell lymphomas, lymph nodes of inguinal region and lower limb             | Diagnosis     | ICD-10-CM |
| C84.Z6 | Other mature T/NK-cell lymphomas, intrapelvic lymph nodes                                   | Diagnosis     | ICD-10-CM |
| C84.Z7 | Other mature T/NK-cell lymphomas, spleen  | Diagnosis     | ICD-10-CM |
| C84.Z8 | Other mature T/NK-cell lymphomas, lymph nodes of multiple sites                             | Diagnosis     | ICD-10-CM |
| C84.Z9 | Other mature T/NK-cell lymphomas, extranodal and solid organ sites                          | Diagnosis     | ICD-10-CM |
| C85.1  | Unspecified B-cell lymphoma   | Diagnosis     | ICD-10-CM |
| C85.10 | Unspecified B-cell lymphoma, unspecified site   | Diagnosis     | ICD-10-CM |
| C85.11 | Unspecified B-cell lymphoma, lymph nodes of head, face, and neck                            | Diagnosis     | ICD-10-CM |
| C85.12 | Unspecified B-cell lymphoma, intrathoracic lymph nodes                                      | Diagnosis     | ICD-10-CM |
| C85.13 | Unspecified B-cell lymphoma, intra-abdominal lymph nodes                                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description  | Code Category | Code Type |
|--------|--|---------------|-----------|
| C85.14 | Unspecified B-cell lymphoma, lymph nodes of axilla and upper limb                            | Diagnosis     | ICD-10-CM |
| C85.15 | Unspecified B-cell lymphoma, lymph nodes of inguinal region and lower limb                   | Diagnosis     | ICD-10-CM |
| C85.16 | Unspecified B-cell lymphoma, intrapelvic lymph nodes   | Diagnosis     | ICD-10-CM |
| C85.17 | Unspecified B-cell lymphoma, spleen  | Diagnosis     | ICD-10-CM |
| C85.18 | Unspecified B-cell lymphoma, lymph nodes of multiple sites                                   | Diagnosis     | ICD-10-CM |
| C85.19 | Unspecified B-cell lymphoma, extranodal and solid organ sites                                | Diagnosis     | ICD-10-CM |
| C85.2  | Mediastinal (thymic) large B-cell lymphoma   | Diagnosis     | ICD-10-CM |
| C85.20 | Mediastinal (thymic) large B-cell lymphoma, unspecified site                                 | Diagnosis     | ICD-10-CM |
| C85.21 | Mediastinal (thymic) large B-cell lymphoma, lymph nodes of head, face, and neck              | Diagnosis     | ICD-10-CM |
| C85.22 | Mediastinal (thymic) large B-cell lymphoma, intrathoracic lymph nodes                        | Diagnosis     | ICD-10-CM |
| C85.23 | Mediastinal (thymic) large B-cell lymphoma, intra-abdominal lymph nodes                      | Diagnosis     | ICD-10-CM |
| C85.24 | Mediastinal (thymic) large B-cell lymphoma, lymph nodes of axilla and upper limb             | Diagnosis     | ICD-10-CM |
| C85.25 | Mediastinal (thymic) large B-cell lymphoma, lymph nodes of inguinal region and lower limb    | Diagnosis     | ICD-10-CM |
| C85.26 | Mediastinal (thymic) large B-cell lymphoma, intrapelvic lymph nodes                          | Diagnosis     | ICD-10-CM |
| C85.27 | Mediastinal (thymic) large B-cell lymphoma, spleen   | Diagnosis     | ICD-10-CM |
| C85.28 | Mediastinal (thymic) large B-cell lymphoma, lymph nodes of multiple sites                    | Diagnosis     | ICD-10-CM |
| C85.29 | Mediastinal (thymic) large B-cell lymphoma, extranodal and solid organ sites                 | Diagnosis     | ICD-10-CM |
| C85.8  | Other specified types of non-Hodgkin lymphoma  | Diagnosis     | ICD-10-CM |
| C85.80 | Other specified types of non-Hodgkin lymphoma, unspecified site                              | Diagnosis     | ICD-10-CM |
| C85.81 | Other specified types of non-Hodgkin lymphoma, lymph nodes of head, face, and neck           | Diagnosis     | ICD-10-CM |
| C85.82 | Other specified types of non-Hodgkin lymphoma, intrathoracic lymph nodes                     | Diagnosis     | ICD-10-CM |
| C85.83 | Other specified types of non-Hodgkin lymphoma, intra-abdominal lymph nodes                   | Diagnosis     | ICD-10-CM |
| C85.84 | Other specified types of non-Hodgkin lymphoma, lymph nodes of axilla and upper limb          | Diagnosis     | ICD-10-CM |
| C85.85 | Other specified types of non-Hodgkin lymphoma, lymph nodes of inguinal region and lower limb | Diagnosis     | ICD-10-CM |
| C85.86 | Other specified types of non-Hodgkin lymphoma, intrapelvic lymph nodes                       | Diagnosis     | ICD-10-CM |
| C85.87 | Other specified types of non-Hodgkin lymphoma, spleen  | Diagnosis     | ICD-10-CM |
| C85.88 | Other specified types of non-Hodgkin lymphoma, lymph nodes of multiple sites                 | Diagnosis     | ICD-10-CM |
| C85.89 | Other specified types of non-Hodgkin lymphoma, extranodal and solid organ sites              | Diagnosis     | ICD-10-CM |
| C85.9  | Non-Hodgkin lymphoma, unspecified  | Diagnosis     | ICD-10-CM |
| C85.90 | Non-Hodgkin lymphoma, unspecified, unspecified site  | Diagnosis     | ICD-10-CM |
| C85.91 | Non-Hodgkin lymphoma, unspecified, lymph nodes of head, face, and neck                       | Diagnosis     | ICD-10-CM |
| C85.92 | Non-Hodgkin lymphoma, unspecified, intrathoracic lymph nodes                                 | Diagnosis     | ICD-10-CM |
| C85.93 | Non-Hodgkin lymphoma, unspecified, intra-abdominal lymph nodes                               | Diagnosis     | ICD-10-CM |
| C85.94 | Non-Hodgkin lymphoma, unspecified, lymph nodes of axilla and upper limb                      | Diagnosis     | ICD-10-CM |
| C85.95 | Non-Hodgkin lymphoma, unspecified, lymph nodes of inguinal region and lower limb             | Diagnosis     | ICD-10-CM |
| C85.96 | Non-Hodgkin lymphoma, unspecified, intrapelvic lymph nodes                                   | Diagnosis     | ICD-10-CM |
| C85.97 | Non-Hodgkin lymphoma, unspecified, spleen  | Diagnosis     | ICD-10-CM |
| C85.98 | Non-Hodgkin lymphoma, unspecified, lymph nodes of multiple sites                             | Diagnosis     | ICD-10-CM |
| C85.99 | Non-Hodgkin lymphoma, unspecified, extranodal and solid organ sites                          | Diagnosis     | ICD-10-CM |
| C86.0  | Extranodal NK/T-cell lymphoma, nasal type  | Diagnosis     | ICD-10-CM |
| C86.1  | Hepatosplenic T-cell lymphoma  | Diagnosis     | ICD-10-CM |
| C86.2  | Enteropathy-type (intestinal) T-cell lymphoma  | Diagnosis     | ICD-10-CM |
| C86.3  | Subcutaneous panniculitis-like T-cell lymphoma   | Diagnosis     | ICD-10-CM |
| C86.4  | Blastic NK-cell lymphoma   | Diagnosis     | ICD-10-CM |
| C86.5  | Angioimmunoblastic T-cell lymphoma   | Diagnosis     | ICD-10-CM |
| C86.6  | Primary cutaneous CD30-positive T-cell proliferations  | Diagnosis     | ICD-10-CM |
| C88.0  | Waldenstrom macroglobulinemia  | Diagnosis     | ICD-10-CM |
| C88.2  | Heavy chain disease  | Diagnosis     | ICD-10-CM |
| C88.3  | Immunoproliferative small intestinal disease   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description   | Code Category | Code Type |
|--------|---|---------------|-----------|
| C88.4  | Extranodal marginal zone B-cell lymphoma of mucosa-associated lymphoid tissue [MALT-lymphoma] | Diagnosis     | ICD-10-CM |
| C88.8  | Other malignant immunoproliferative diseases  | Diagnosis     | ICD-10-CM |
| C88.9  | Malignant immunoproliferative disease, unspecified  | Diagnosis     | ICD-10-CM |
| C90.0  | Multiple myeloma  | Diagnosis     | ICD-10-CM |
| C90.00 | Multiple myeloma not having achieved remission  | Diagnosis     | ICD-10-CM |
| C90.01 | Multiple myeloma in remission   | Diagnosis     | ICD-10-CM |
| C90.02 | Multiple myeloma in relapse   | Diagnosis     | ICD-10-CM |
| C90.1  | Plasma cell leukemia  | Diagnosis     | ICD-10-CM |
| C90.10 | Plasma cell leukemia not having achieved remission  | Diagnosis     | ICD-10-CM |
| C90.11 | Plasma cell leukemia in remission   | Diagnosis     | ICD-10-CM |
| C90.12 | Plasma cell leukemia in relapse   | Diagnosis     | ICD-10-CM |
| C90.2  | Extramedullary plasmacytoma   | Diagnosis     | ICD-10-CM |
| C90.20 | Extramedullary plasmacytoma not having achieved remission                                     | Diagnosis     | ICD-10-CM |
| C90.21 | Extramedullary plasmacytoma in remission  | Diagnosis     | ICD-10-CM |
| C90.22 | Extramedullary plasmacytoma in relapse  | Diagnosis     | ICD-10-CM |
| C90.3  | Solitary plasmacytoma   | Diagnosis     | ICD-10-CM |
| C90.30 | Solitary plasmacytoma not having achieved remission   | Diagnosis     | ICD-10-CM |
| C90.31 | Solitary plasmacytoma in remission  | Diagnosis     | ICD-10-CM |
| C90.32 | Solitary plasmacytoma in relapse  | Diagnosis     | ICD-10-CM |
| C91.0  | Acute lymphoblastic leukemia [ALL]  | Diagnosis     | ICD-10-CM |
| C91.00 | Acute lymphoblastic leukemia not having achieved remission                                    | Diagnosis     | ICD-10-CM |
| C91.01 | Acute lymphoblastic leukemia, in remission  | Diagnosis     | ICD-10-CM |
| C91.02 | Acute lymphoblastic leukemia, in relapse  | Diagnosis     | ICD-10-CM |
| C91.1  | Chronic lymphocytic leukemia of B-cell type   | Diagnosis     | ICD-10-CM |
| C91.10 | Chronic lymphocytic leukemia of B-cell type not having achieved remission                     | Diagnosis     | ICD-10-CM |
| C91.11 | Chronic lymphocytic leukemia of B-cell type in remission                                      | Diagnosis     | ICD-10-CM |
| C91.12 | Chronic lymphocytic leukemia of B-cell type in relapse  | Diagnosis     | ICD-10-CM |
| C91.3  | Prolymphocytic leukemia of B-cell type  | Diagnosis     | ICD-10-CM |
| C91.30 | Prolymphocytic leukemia of B-cell type not having achieved remission                          | Diagnosis     | ICD-10-CM |
| C91.31 | Prolymphocytic leukemia of B-cell type, in remission  | Diagnosis     | ICD-10-CM |
| C91.32 | Prolymphocytic leukemia of B-cell type, in relapse  | Diagnosis     | ICD-10-CM |
| C91.4  | Hairy cell leukemia   | Diagnosis     | ICD-10-CM |
| C91.40 | Hairy cell leukemia not having achieved remission   | Diagnosis     | ICD-10-CM |
| C91.41 | Hairy cell leukemia, in remission   | Diagnosis     | ICD-10-CM |
| C91.42 | Hairy cell leukemia, in relapse   | Diagnosis     | ICD-10-CM |
| C91.5  | Adult T-cell lymphoma/leukemia (HTLV-1-associated)  | Diagnosis     | ICD-10-CM |
| C91.50 | Adult T-cell lymphoma/leukemia (HTLV-1-associated) not having achieved remission              | Diagnosis     | ICD-10-CM |
| C91.51 | Adult T-cell lymphoma/leukemia (HTLV-1-associated), in remission                              | Diagnosis     | ICD-10-CM |
| C91.52 | Adult T-cell lymphoma/leukemia (HTLV-1-associated), in relapse                                | Diagnosis     | ICD-10-CM |
| C91.6  | Prolymphocytic leukemia of T-cell type  | Diagnosis     | ICD-10-CM |
| C91.60 | Prolymphocytic leukemia of T-cell type not having achieved remission                          | Diagnosis     | ICD-10-CM |
| C91.61 | Prolymphocytic leukemia of T-cell type, in remission  | Diagnosis     | ICD-10-CM |
| C91.62 | Prolymphocytic leukemia of T-cell type, in relapse  | Diagnosis     | ICD-10-CM |
| C91.9  | Lymphoid leukemia, unspecified  | Diagnosis     | ICD-10-CM |
| C91.90 | Lymphoid leukemia, unspecified not having achieved remission                                  | Diagnosis     | ICD-10-CM |
| C91.91 | Lymphoid leukemia, unspecified, in remission  | Diagnosis     | ICD-10-CM |
| C91.92 | Lymphoid leukemia, unspecified, in relapse  | Diagnosis     | ICD-10-CM |
| C91.A  | Mature B-cell leukemia Burkitt-type   | Diagnosis     | ICD-10-CM |
| C91.A0 | Mature B-cell leukemia Burkitt-type not having achieved remission                             | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description  | Code Category | Code Type |
|--------|--|---------------|-----------|
| C91.A1 | Mature B-cell leukemia Burkitt-type, in remission                                  | Diagnosis     | ICD-10-CM |
| C91.A2 | Mature B-cell leukemia Burkitt-type, in relapse                                    | Diagnosis     | ICD-10-CM |
| C91.Z  | Other lymphoid leukemia  | Diagnosis     | ICD-10-CM |
| C91.Z0 | Other lymphoid leukemia not having achieved remission                              | Diagnosis     | ICD-10-CM |
| C91.Z1 | Other lymphoid leukemia, in remission  | Diagnosis     | ICD-10-CM |
| C91.Z2 | Other lymphoid leukemia, in relapse  | Diagnosis     | ICD-10-CM |
| C92.0  | Acute myeloblastic leukemia  | Diagnosis     | ICD-10-CM |
| C92.00 | Acute myeloblastic leukemia, not having achieved remission                         | Diagnosis     | ICD-10-CM |
| C92.01 | Acute myeloblastic leukemia, in remission  | Diagnosis     | ICD-10-CM |
| C92.02 | Acute myeloblastic leukemia, in relapse  | Diagnosis     | ICD-10-CM |
| C92.1  | Chronic myeloid leukemia, BCR/ABL-positive   | Diagnosis     | ICD-10-CM |
| C92.10 | Chronic myeloid leukemia, BCR/ABL-positive, not having achieved remission          | Diagnosis     | ICD-10-CM |
| C92.11 | Chronic myeloid leukemia, BCR/ABL-positive, in remission                           | Diagnosis     | ICD-10-CM |
| C92.12 | Chronic myeloid leukemia, BCR/ABL-positive, in relapse                             | Diagnosis     | ICD-10-CM |
| C92.2  | Atypical chronic myeloid leukemia, BCR/ABL-negative                                | Diagnosis     | ICD-10-CM |
| C92.20 | Atypical chronic myeloid leukemia, BCR/ABL-negative, not having achieved remission | Diagnosis     | ICD-10-CM |
| C92.21 | Atypical chronic myeloid leukemia, BCR/ABL-negative, in remission                  | Diagnosis     | ICD-10-CM |
| C92.22 | Atypical chronic myeloid leukemia, BCR/ABL-negative, in relapse                    | Diagnosis     | ICD-10-CM |
| C92.3  | Myeloid sarcoma  | Diagnosis     | ICD-10-CM |
| C92.30 | Myeloid sarcoma, not having achieved remission                                     | Diagnosis     | ICD-10-CM |
| C92.31 | Myeloid sarcoma, in remission  | Diagnosis     | ICD-10-CM |
| C92.32 | Myeloid sarcoma, in relapse  | Diagnosis     | ICD-10-CM |
| C92.4  | Acute promyelocytic leukemia   | Diagnosis     | ICD-10-CM |
| C92.40 | Acute promyelocytic leukemia, not having achieved remission                        | Diagnosis     | ICD-10-CM |
| C92.41 | Acute promyelocytic leukemia, in remission   | Diagnosis     | ICD-10-CM |
| C92.42 | Acute promyelocytic leukemia, in relapse   | Diagnosis     | ICD-10-CM |
| C92.5  | Acute myelomonocytic leukemia  | Diagnosis     | ICD-10-CM |
| C92.50 | Acute myelomonocytic leukemia, not having achieved remission                       | Diagnosis     | ICD-10-CM |
| C92.51 | Acute myelomonocytic leukemia, in remission  | Diagnosis     | ICD-10-CM |
| C92.52 | Acute myelomonocytic leukemia, in relapse  | Diagnosis     | ICD-10-CM |
| C92.6  | Acute myeloid leukemia with 11q23-abnormality                                      | Diagnosis     | ICD-10-CM |
| C92.60 | Acute myeloid leukemia with 11q23-abnormality not having achieved remission        | Diagnosis     | ICD-10-CM |
| C92.61 | Acute myeloid leukemia with 11q23-abnormality in remission                         | Diagnosis     | ICD-10-CM |
| C92.62 | Acute myeloid leukemia with 11q23-abnormality in relapse                           | Diagnosis     | ICD-10-CM |
| C92.9  | Myeloid leukemia, unspecified  | Diagnosis     | ICD-10-CM |
| C92.90 | Myeloid leukemia, unspecified, not having achieved remission                       | Diagnosis     | ICD-10-CM |
| C92.91 | Myeloid leukemia, unspecified in remission   | Diagnosis     | ICD-10-CM |
| C92.92 | Myeloid leukemia, unspecified in relapse   | Diagnosis     | ICD-10-CM |
| C92.A  | Acute myeloid leukemia with multilineage dysplasia                                 | Diagnosis     | ICD-10-CM |
| C92.A0 | Acute myeloid leukemia with multilineage dysplasia, not having achieved remission  | Diagnosis     | ICD-10-CM |
| C92.A1 | Acute myeloid leukemia with multilineage dysplasia, in remission                   | Diagnosis     | ICD-10-CM |
| C92.A2 | Acute myeloid leukemia with multilineage dysplasia, in relapse                     | Diagnosis     | ICD-10-CM |
| C92.Z  | Other myeloid leukemia   | Diagnosis     | ICD-10-CM |
| C92.Z0 | Other myeloid leukemia not having achieved remission                               | Diagnosis     | ICD-10-CM |
| C92.Z1 | Other myeloid leukemia, in remission   | Diagnosis     | ICD-10-CM |
| C92.Z2 | Other myeloid leukemia, in relapse   | Diagnosis     | ICD-10-CM |
| C93.0  | Acute monoblastic/monocytic leukemia   | Diagnosis     | ICD-10-CM |
| C93.00 | Acute monoblastic/monocytic leukemia, not having achieved remission                | Diagnosis     | ICD-10-CM |
| C93.01 | Acute monoblastic/monocytic leukemia, in remission                                 | Diagnosis     | ICD-10-CM |
| C93.02 | Acute monoblastic/monocytic leukemia, in relapse                                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description   | Code Category | Code Type |
|--------|---|---------------|-----------|
| C93.1  | Chronic myelomonocytic leukemia   | Diagnosis     | ICD-10-CM |
| C93.10 | Chronic myelomonocytic leukemia not having achieved remission             | Diagnosis     | ICD-10-CM |
| C93.11 | Chronic myelomonocytic leukemia, in remission                             | Diagnosis     | ICD-10-CM |
| C93.12 | Chronic myelomonocytic leukemia, in relapse                               | Diagnosis     | ICD-10-CM |
| C93.3  | Juvenile myelomonocytic leukemia  | Diagnosis     | ICD-10-CM |
| C93.30 | Juvenile myelomonocytic leukemia, not having achieved remission           | Diagnosis     | ICD-10-CM |
| C93.31 | Juvenile myelomonocytic leukemia, in remission                            | Diagnosis     | ICD-10-CM |
| C93.32 | Juvenile myelomonocytic leukemia, in relapse                              | Diagnosis     | ICD-10-CM |
| C93.9  | Monocytic leukemia, unspecified   | Diagnosis     | ICD-10-CM |
| C93.90 | Monocytic leukemia, unspecified, not having achieved remission            | Diagnosis     | ICD-10-CM |
| C93.91 | Monocytic leukemia, unspecified in remission                              | Diagnosis     | ICD-10-CM |
| C93.92 | Monocytic leukemia, unspecified in relapse                                | Diagnosis     | ICD-10-CM |
| C93.Z  | Other monocytic leukemia  | Diagnosis     | ICD-10-CM |
| C93.Z0 | Other monocytic leukemia, not having achieved remission                   | Diagnosis     | ICD-10-CM |
| C93.Z1 | Other monocytic leukemia, in remission                                    | Diagnosis     | ICD-10-CM |
| C93.Z2 | Other monocytic leukemia, in relapse                                      | Diagnosis     | ICD-10-CM |
| C94.0  | Acute erythroid leukemia  | Diagnosis     | ICD-10-CM |
| C94.00 | Acute erythroid leukemia, not having achieved remission                   | Diagnosis     | ICD-10-CM |
| C94.01 | Acute erythroid leukemia, in remission                                    | Diagnosis     | ICD-10-CM |
| C94.02 | Acute erythroid leukemia, in relapse                                      | Diagnosis     | ICD-10-CM |
| C94.2  | Acute megakaryoblastic leukemia   | Diagnosis     | ICD-10-CM |
| C94.20 | Acute megakaryoblastic leukemia not having achieved remission             | Diagnosis     | ICD-10-CM |
| C94.21 | Acute megakaryoblastic leukemia, in remission                             | Diagnosis     | ICD-10-CM |
| C94.22 | Acute megakaryoblastic leukemia, in relapse                               | Diagnosis     | ICD-10-CM |
| C94.3  | Mast cell leukemia  | Diagnosis     | ICD-10-CM |
| C94.30 | Mast cell leukemia not having achieved remission                          | Diagnosis     | ICD-10-CM |
| C94.31 | Mast cell leukemia, in remission  | Diagnosis     | ICD-10-CM |
| C94.32 | Mast cell leukemia, in relapse  | Diagnosis     | ICD-10-CM |
| C94.8  | Other specified leukemias   | Diagnosis     | ICD-10-CM |
| C94.80 | Other specified leukemias not having achieved remission                   | Diagnosis     | ICD-10-CM |
| C94.81 | Other specified leukemias, in remission                                   | Diagnosis     | ICD-10-CM |
| C94.82 | Other specified leukemias, in relapse                                     | Diagnosis     | ICD-10-CM |
| C95.0  | Acute leukemia of unspecified cell type                                   | Diagnosis     | ICD-10-CM |
| C95.00 | Acute leukemia of unspecified cell type not having achieved remission     | Diagnosis     | ICD-10-CM |
| C95.01 | Acute leukemia of unspecified cell type, in remission                     | Diagnosis     | ICD-10-CM |
| C95.02 | Acute leukemia of unspecified cell type, in relapse                       | Diagnosis     | ICD-10-CM |
| C95.1  | Chronic leukemia of unspecified cell type                                 | Diagnosis     | ICD-10-CM |
| C95.10 | Chronic leukemia of unspecified cell type not having achieved remission   | Diagnosis     | ICD-10-CM |
| C95.11 | Chronic leukemia of unspecified cell type, in remission                   | Diagnosis     | ICD-10-CM |
| C95.12 | Chronic leukemia of unspecified cell type, in relapse                     | Diagnosis     | ICD-10-CM |
| C95.9  | Leukemia, unspecified   | Diagnosis     | ICD-10-CM |
| C95.90 | Leukemia, unspecified not having achieved remission                       | Diagnosis     | ICD-10-CM |
| C95.91 | Leukemia, unspecified, in remission                                       | Diagnosis     | ICD-10-CM |
| C95.92 | Leukemia, unspecified, in relapse   | Diagnosis     | ICD-10-CM |
| C96.0  | Multifocal and multisystemic (disseminated) Langerhans-cell histiocytosis | Diagnosis     | ICD-10-CM |
| C96.2  | Malignant mast cell neoplasm  | Diagnosis     | ICD-10-CM |
| C96.20 | Malignant mast cell neoplasm, unspecified                                 | Diagnosis     | ICD-10-CM |
| C96.21 | Aggressive systemic mastocytosis  | Diagnosis     | ICD-10-CM |
| C96.22 | Mast cell sarcoma   | Diagnosis     | ICD-10-CM |
| C96.29 | Other malignant mast cell neoplasm  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code                             | Description   | Code Category | Code Type |
|----------------------------------|---|---------------|-----------|
| C96.4                            | Sarcoma of dendritic cells (accessory cells)                                      | Diagnosis     | ICD-10-CM |
| C96.9                            | Malignant neoplasm of lymphoid, hematopoietic and related tissue, unspecified     | Diagnosis     | ICD-10-CM |
| C96.A                            | Histiocytic sarcoma   | Diagnosis     | ICD-10-CM |
| C96.Z                            | Other specified malignant neoplasms of lymphoid, hematopoietic and related tissue | Diagnosis     | ICD-10-CM |
| D45                              | Polycythemia vera   | Diagnosis     | ICD-10-CM |
| <b>Asthma</b>                    |   |               |           |
| J45.2                            | Mild intermittent asthma  | Diagnosis     | ICD-10-CM |
| J45.20                           | Mild intermittent asthma, uncomplicated   | Diagnosis     | ICD-10-CM |
| J45.21                           | Mild intermittent asthma with (acute) exacerbation                                | Diagnosis     | ICD-10-CM |
| J45.22                           | Mild intermittent asthma with status asthmaticus                                  | Diagnosis     | ICD-10-CM |
| J45.3                            | Mild persistent asthma  | Diagnosis     | ICD-10-CM |
| J45.30                           | Mild persistent asthma, uncomplicated   | Diagnosis     | ICD-10-CM |
| J45.31                           | Mild persistent asthma with (acute) exacerbation                                  | Diagnosis     | ICD-10-CM |
| J45.32                           | Mild persistent asthma with status asthmaticus                                    | Diagnosis     | ICD-10-CM |
| J45.4                            | Moderate persistent asthma  | Diagnosis     | ICD-10-CM |
| J45.40                           | Moderate persistent asthma, uncomplicated   | Diagnosis     | ICD-10-CM |
| J45.41                           | Moderate persistent asthma with (acute) exacerbation                              | Diagnosis     | ICD-10-CM |
| J45.42                           | Moderate persistent asthma with status asthmaticus                                | Diagnosis     | ICD-10-CM |
| J45.5                            | Severe persistent asthma  | Diagnosis     | ICD-10-CM |
| J45.50                           | Severe persistent asthma, uncomplicated   | Diagnosis     | ICD-10-CM |
| J45.51                           | Severe persistent asthma with (acute) exacerbation                                | Diagnosis     | ICD-10-CM |
| J45.52                           | Severe persistent asthma with status asthmaticus                                  | Diagnosis     | ICD-10-CM |
| J45.9                            | Other and unspecified asthma  | Diagnosis     | ICD-10-CM |
| J45.90                           | Unspecified asthma  | Diagnosis     | ICD-10-CM |
| J45.901                          | Unspecified asthma with (acute) exacerbation                                      | Diagnosis     | ICD-10-CM |
| J45.902                          | Unspecified asthma with status asthmaticus  | Diagnosis     | ICD-10-CM |
| J45.909                          | Unspecified asthma, uncomplicated   | Diagnosis     | ICD-10-CM |
| J45.99                           | Other asthma  | Diagnosis     | ICD-10-CM |
| J45.990                          | Exercise induced bronchospasm   | Diagnosis     | ICD-10-CM |
| J45.991                          | Cough variant asthma  | Diagnosis     | ICD-10-CM |
| J45.998                          | Other asthma  | Diagnosis     | ICD-10-CM |
| <b>Cardiovascular Conditions</b> |   |               |           |
| I01.0                            | Acute rheumatic pericarditis  | Diagnosis     | ICD-10-CM |
| I01.1                            | Acute rheumatic endocarditis  | Diagnosis     | ICD-10-CM |
| I01.2                            | Acute rheumatic myocarditis   | Diagnosis     | ICD-10-CM |
| I01.8                            | Other acute rheumatic heart disease   | Diagnosis     | ICD-10-CM |
| I01.9                            | Acute rheumatic heart disease, unspecified  | Diagnosis     | ICD-10-CM |
| I02.0                            | Rheumatic chorea with heart involvement   | Diagnosis     | ICD-10-CM |
| I02.9                            | Rheumatic chorea without heart involvement  | Diagnosis     | ICD-10-CM |
| I05.0                            | Rheumatic mitral stenosis   | Diagnosis     | ICD-10-CM |
| I05.1                            | Rheumatic mitral insufficiency  | Diagnosis     | ICD-10-CM |
| I05.2                            | Rheumatic mitral stenosis with insufficiency                                      | Diagnosis     | ICD-10-CM |
| I05.8                            | Other rheumatic mitral valve diseases   | Diagnosis     | ICD-10-CM |
| I05.9                            | Rheumatic mitral valve disease, unspecified                                       | Diagnosis     | ICD-10-CM |
| I06.0                            | Rheumatic aortic stenosis   | Diagnosis     | ICD-10-CM |
| I06.1                            | Rheumatic aortic insufficiency  | Diagnosis     | ICD-10-CM |
| I06.2                            | Rheumatic aortic stenosis with insufficiency                                      | Diagnosis     | ICD-10-CM |
| I06.8                            | Other rheumatic aortic valve diseases   | Diagnosis     | ICD-10-CM |
| I06.9                            | Rheumatic aortic valve disease, unspecified                                       | Diagnosis     | ICD-10-CM |
| I07.0                            | Rheumatic tricuspid stenosis  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description   | Code Category | Code Type |
|--------|---|---------------|-----------|
| I07.1  | Rheumatic tricuspid insufficiency   | Diagnosis     | ICD-10-CM |
| I07.2  | Rheumatic tricuspid stenosis and insufficiency  | Diagnosis     | ICD-10-CM |
| I07.8  | Other rheumatic tricuspid valve diseases  | Diagnosis     | ICD-10-CM |
| I07.9  | Rheumatic tricuspid valve disease, unspecified  | Diagnosis     | ICD-10-CM |
| I08.0  | Rheumatic disorders of both mitral and aortic valves  | Diagnosis     | ICD-10-CM |
| I08.1  | Rheumatic disorders of both mitral and tricuspid valves   | Diagnosis     | ICD-10-CM |
| I08.2  | Rheumatic disorders of both aortic and tricuspid valves   | Diagnosis     | ICD-10-CM |
| I08.3  | Combined rheumatic disorders of mitral, aortic and tricuspid valves   | Diagnosis     | ICD-10-CM |
| I08.8  | Other rheumatic multiple valve diseases   | Diagnosis     | ICD-10-CM |
| I08.9  | Rheumatic multiple valve disease, unspecified   | Diagnosis     | ICD-10-CM |
| I09.0  | Rheumatic myocarditis   | Diagnosis     | ICD-10-CM |
| I09.1  | Rheumatic diseases of endocardium, valve unspecified  | Diagnosis     | ICD-10-CM |
| I09.2  | Chronic rheumatic pericarditis  | Diagnosis     | ICD-10-CM |
| I09.8  | Other specified rheumatic heart diseases  | Diagnosis     | ICD-10-CM |
| I09.81 | Rheumatic heart failure   | Diagnosis     | ICD-10-CM |
| I09.89 | Other specified rheumatic heart diseases  | Diagnosis     | ICD-10-CM |
| I09.9  | Rheumatic heart disease, unspecified  | Diagnosis     | ICD-10-CM |
| I11.0  | Hypertensive heart disease with heart failure   | Diagnosis     | ICD-10-CM |
| I11.9  | Hypertensive heart disease without heart failure  | Diagnosis     | ICD-10-CM |
| I12.0  | Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease  | Diagnosis     | ICD-10-CM |
| I12.9  | Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease                                  | Diagnosis     | ICD-10-CM |
| I13.0  | Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease      | Diagnosis     | ICD-10-CM |
| I13.1  | Hypertensive heart and chronic kidney disease without heart failure   | Diagnosis     | ICD-10-CM |
| I13.10 | Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease | Diagnosis     | ICD-10-CM |
| I13.11 | Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease                            | Diagnosis     | ICD-10-CM |
| I13.2  | Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease                            | Diagnosis     | ICD-10-CM |
| I15.0  | Renovascular hypertension   | Diagnosis     | ICD-10-CM |
| I15.1  | Hypertension secondary to other renal disorders   | Diagnosis     | ICD-10-CM |
| I15.2  | Hypertension secondary to endocrine disorders   | Diagnosis     | ICD-10-CM |
| I15.8  | Other secondary hypertension  | Diagnosis     | ICD-10-CM |
| I15.9  | Secondary hypertension, unspecified   | Diagnosis     | ICD-10-CM |
| I16.0  | Hypertensive urgency  | Diagnosis     | ICD-10-CM |
| I16.1  | Hypertensive emergency  | Diagnosis     | ICD-10-CM |
| I16.9  | Hypertensive crisis, unspecified  | Diagnosis     | ICD-10-CM |
| I20.0  | Unstable angina   | Diagnosis     | ICD-10-CM |
| I20.1  | Angina pectoris with documented spasm   | Diagnosis     | ICD-10-CM |
| I20.2  | Refractory angina pectoris  | Diagnosis     | ICD-10-CM |
| I20.8  | Other forms of angina pectoris  | Diagnosis     | ICD-10-CM |
| I20.9  | Angina pectoris, unspecified  | Diagnosis     | ICD-10-CM |
| I21.0  | ST elevation (STEMI) myocardial infarction of anterior wall   | Diagnosis     | ICD-10-CM |
| I21.01 | ST elevation (STEMI) myocardial infarction involving left main coronary artery  | Diagnosis     | ICD-10-CM |
| I21.02 | ST elevation (STEMI) myocardial infarction involving left anterior descending coronary artery   | Diagnosis     | ICD-10-CM |
| I21.09 | ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| I21.1   | ST elevation (STEMI) myocardial infarction of inferior wall   | Diagnosis     | ICD-10-CM |
| I21.11  | ST elevation (STEMI) myocardial infarction involving right coronary artery  | Diagnosis     | ICD-10-CM |
| I21.19  | ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall                             | Diagnosis     | ICD-10-CM |
| I21.2   | ST elevation (STEMI) myocardial infarction of other sites   | Diagnosis     | ICD-10-CM |
| I21.21  | ST elevation (STEMI) myocardial infarction involving left circumflex coronary artery                                    | Diagnosis     | ICD-10-CM |
| I21.29  | ST elevation (STEMI) myocardial infarction involving other sites  | Diagnosis     | ICD-10-CM |
| I21.3   | ST elevation (STEMI) myocardial infarction of unspecified site  | Diagnosis     | ICD-10-CM |
| I21.4   | Non-ST elevation (NSTEMI) myocardial infarction   | Diagnosis     | ICD-10-CM |
| I21.9   | Acute myocardial infarction, unspecified  | Diagnosis     | ICD-10-CM |
| I21.A   | Other type of myocardial infarction   | Diagnosis     | ICD-10-CM |
| I21.A1  | Myocardial infarction type 2  | Diagnosis     | ICD-10-CM |
| I21.A9  | Other myocardial infarction type  | Diagnosis     | ICD-10-CM |
| I22.0   | Subsequent ST elevation (STEMI) myocardial infarction of anterior wall  | Diagnosis     | ICD-10-CM |
| I22.1   | Subsequent ST elevation (STEMI) myocardial infarction of inferior wall  | Diagnosis     | ICD-10-CM |
| I22.2   | Subsequent non-ST elevation (NSTEMI) myocardial infarction  | Diagnosis     | ICD-10-CM |
| I22.8   | Subsequent ST elevation (STEMI) myocardial infarction of other sites  | Diagnosis     | ICD-10-CM |
| I22.9   | Subsequent ST elevation (STEMI) myocardial infarction of unspecified site   | Diagnosis     | ICD-10-CM |
| I23.0   | Hemopericardium as current complication following acute myocardial infarction   | Diagnosis     | ICD-10-CM |
| I23.1   | Atrial septal defect as current complication following acute myocardial infarction                                      | Diagnosis     | ICD-10-CM |
| I23.2   | Ventricular septal defect as current complication following acute myocardial infarction                                 | Diagnosis     | ICD-10-CM |
| I23.3   | Rupture of cardiac wall without hemopericardium as current complication following acute myocardial infarction           | Diagnosis     | ICD-10-CM |
| I23.4   | Rupture of chordae tendineae as current complication following acute myocardial infarction                              | Diagnosis     | ICD-10-CM |
| I23.5   | Rupture of papillary muscle as current complication following acute myocardial infarction                               | Diagnosis     | ICD-10-CM |
| I23.6   | Thrombosis of atrium, auricular appendage, and ventricle as current complications following acute myocardial infarction | Diagnosis     | ICD-10-CM |
| I23.7   | Postinfarction angina   | Diagnosis     | ICD-10-CM |
| I23.8   | Other current complications following acute myocardial infarction   | Diagnosis     | ICD-10-CM |
| I24.0   | Acute coronary thrombosis not resulting in myocardial infarction  | Diagnosis     | ICD-10-CM |
| I24.1   | Dressler's syndrome   | Diagnosis     | ICD-10-CM |
| I24.8   | Other forms of acute ischemic heart disease   | Diagnosis     | ICD-10-CM |
| I24.9   | Acute ischemic heart disease, unspecified   | Diagnosis     | ICD-10-CM |
| I25.1   | Atherosclerotic heart disease of native coronary artery   | Diagnosis     | ICD-10-CM |
| I25.10  | Atherosclerotic heart disease of native coronary artery without angina pectoris   | Diagnosis     | ICD-10-CM |
| I25.11  | Atherosclerotic heart disease of native coronary artery with angina pectoris  | Diagnosis     | ICD-10-CM |
| I25.110 | Atherosclerotic heart disease of native coronary artery with unstable angina pectoris                                   | Diagnosis     | ICD-10-CM |
| I25.111 | Atherosclerotic heart disease of native coronary artery with angina pectoris with documented spasm                      | Diagnosis     | ICD-10-CM |
| I25.112 | Atherosclerotic heart disease of native coronary artery with refractory angina pectoris                                 | Diagnosis     | ICD-10-CM |
| I25.118 | Atherosclerotic heart disease of native coronary artery with other forms of angina pectoris                             | Diagnosis     | ICD-10-CM |
| I25.119 | Atherosclerotic heart disease of native coronary artery with unspecified angina pectoris                                | Diagnosis     | ICD-10-CM |
| I25.2   | Old myocardial infarction   | Diagnosis     | ICD-10-CM |
| I25.3   | Aneurysm of heart   | Diagnosis     | ICD-10-CM |
| I25.4   | Coronary artery aneurysm and dissection   | Diagnosis     | ICD-10-CM |
| I25.41  | Coronary artery aneurysm  | Diagnosis     | ICD-10-CM |
| I25.42  | Coronary artery dissection  | Diagnosis     | ICD-10-CM |
| I25.5   | Ischemic cardiomyopathy   | Diagnosis     | ICD-10-CM |
| I25.6   | Silent myocardial ischemia  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| I25.7   | Atherosclerosis of coronary artery bypass graft(s) and coronary artery of transplanted heart with angina pectoris      | Diagnosis     | ICD-10-CM |
| I25.70  | Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris                                  | Diagnosis     | ICD-10-CM |
| I25.700 | Atherosclerosis of coronary artery bypass graft(s), unspecified, with unstable angina pectoris                         | Diagnosis     | ICD-10-CM |
| I25.701 | Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris with documented spasm            | Diagnosis     | ICD-10-CM |
| I25.702 | Atherosclerosis of coronary artery bypass graft(s), unspecified, with refractory angina pectoris                       | Diagnosis     | ICD-10-CM |
| I25.708 | Atherosclerosis of coronary artery bypass graft(s), unspecified, with other forms of angina pectoris                   | Diagnosis     | ICD-10-CM |
| I25.709 | Atherosclerosis of coronary artery bypass graft(s), unspecified, with unspecified angina pectoris                      | Diagnosis     | ICD-10-CM |
| I25.71  | Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris                                | Diagnosis     | ICD-10-CM |
| I25.710 | Atherosclerosis of autologous vein coronary artery bypass graft(s) with unstable angina pectoris                       | Diagnosis     | ICD-10-CM |
| I25.711 | Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris with documented spasm          | Diagnosis     | ICD-10-CM |
| I25.712 | Atherosclerosis of autologous vein coronary artery bypass graft(s) with refractory angina pectoris                     | Diagnosis     | ICD-10-CM |
| I25.718 | Atherosclerosis of autologous vein coronary artery bypass graft(s) with other forms of angina pectoris                 | Diagnosis     | ICD-10-CM |
| I25.719 | Atherosclerosis of autologous vein coronary artery bypass graft(s) with unspecified angina pectoris                    | Diagnosis     | ICD-10-CM |
| I25.72  | Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris                              | Diagnosis     | ICD-10-CM |
| I25.720 | Atherosclerosis of autologous artery coronary artery bypass graft(s) with unstable angina pectoris                     | Diagnosis     | ICD-10-CM |
| I25.721 | Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris with documented spasm        | Diagnosis     | ICD-10-CM |
| I25.722 | Atherosclerosis of autologous artery coronary artery bypass graft(s) with refractory angina pectoris                   | Diagnosis     | ICD-10-CM |
| I25.728 | Atherosclerosis of autologous artery coronary artery bypass graft(s) with other forms of angina pectoris               | Diagnosis     | ICD-10-CM |
| I25.729 | Atherosclerosis of autologous artery coronary artery bypass graft(s) with unspecified angina pectoris                  | Diagnosis     | ICD-10-CM |
| I25.73  | Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris                       | Diagnosis     | ICD-10-CM |
| I25.730 | Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unstable angina pectoris              | Diagnosis     | ICD-10-CM |
| I25.731 | Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris with documented spasm | Diagnosis     | ICD-10-CM |
| I25.732 | Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with refractory angina pectoris            | Diagnosis     | ICD-10-CM |
| I25.738 | Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with other forms of angina pectoris        | Diagnosis     | ICD-10-CM |
| I25.739 | Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unspecified angina pectoris           | Diagnosis     | ICD-10-CM |
| I25.75  | Atherosclerosis of native coronary artery of transplanted heart with angina pectoris                                   | Diagnosis     | ICD-10-CM |
| I25.750 | Atherosclerosis of native coronary artery of transplanted heart with unstable angina                                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| I25.751 | Atherosclerosis of native coronary artery of transplanted heart with angina pectoris with documented spasm          | Diagnosis     | ICD-10-CM |
| I25.752 | Atherosclerosis of native coronary artery of transplanted heart with refractory angina pectoris                     | Diagnosis     | ICD-10-CM |
| I25.758 | Atherosclerosis of native coronary artery of transplanted heart with other forms of angina pectoris                 | Diagnosis     | ICD-10-CM |
| I25.759 | Atherosclerosis of native coronary artery of transplanted heart with unspecified angina pectoris                    | Diagnosis     | ICD-10-CM |
| I25.76  | Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris                       | Diagnosis     | ICD-10-CM |
| I25.760 | Atherosclerosis of bypass graft of coronary artery of transplanted heart with unstable angina                       | Diagnosis     | ICD-10-CM |
| I25.761 | Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris with documented spasm | Diagnosis     | ICD-10-CM |
| I25.762 | Atherosclerosis of bypass graft of coronary artery of transplanted heart with refractory angina pectoris            | Diagnosis     | ICD-10-CM |
| I25.768 | Atherosclerosis of bypass graft of coronary artery of transplanted heart with other forms of angina pectoris        | Diagnosis     | ICD-10-CM |
| I25.769 | Atherosclerosis of bypass graft of coronary artery of transplanted heart with unspecified angina pectoris           | Diagnosis     | ICD-10-CM |
| I25.79  | Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris                                       | Diagnosis     | ICD-10-CM |
| I25.790 | Atherosclerosis of other coronary artery bypass graft(s) with unstable angina pectoris                              | Diagnosis     | ICD-10-CM |
| I25.791 | Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris with documented spasm                 | Diagnosis     | ICD-10-CM |
| I25.792 | Atherosclerosis of other coronary artery bypass graft(s) with refractory angina pectoris                            | Diagnosis     | ICD-10-CM |
| I25.798 | Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris                        | Diagnosis     | ICD-10-CM |
| I25.799 | Atherosclerosis of other coronary artery bypass graft(s) with unspecified angina pectoris                           | Diagnosis     | ICD-10-CM |
| I25.8   | Other forms of chronic ischemic heart disease   | Diagnosis     | ICD-10-CM |
| I25.81  | Atherosclerosis of other coronary vessels without angina pectoris   | Diagnosis     | ICD-10-CM |
| I25.810 | Atherosclerosis of coronary artery bypass graft(s) without angina pectoris  | Diagnosis     | ICD-10-CM |
| I25.811 | Atherosclerosis of native coronary artery of transplanted heart without angina pectoris                             | Diagnosis     | ICD-10-CM |
| I25.812 | Atherosclerosis of bypass graft of coronary artery of transplanted heart without angina pectoris                    | Diagnosis     | ICD-10-CM |
| I25.82  | Chronic total occlusion of coronary artery  | Diagnosis     | ICD-10-CM |
| I25.83  | Coronary atherosclerosis due to lipid rich plaque   | Diagnosis     | ICD-10-CM |
| I25.84  | Coronary atherosclerosis due to calcified coronary lesion   | Diagnosis     | ICD-10-CM |
| I25.89  | Other forms of chronic ischemic heart disease   | Diagnosis     | ICD-10-CM |
| I25.9   | Chronic ischemic heart disease, unspecified   | Diagnosis     | ICD-10-CM |
| I26.0   | Pulmonary embolism with acute cor pulmonale   | Diagnosis     | ICD-10-CM |
| I26.01  | Septic pulmonary embolism with acute cor pulmonale  | Diagnosis     | ICD-10-CM |
| I26.02  | Saddle embolus of pulmonary artery with acute cor pulmonale   | Diagnosis     | ICD-10-CM |
| I26.09  | Other pulmonary embolism with acute cor pulmonale   | Diagnosis     | ICD-10-CM |
| I26.9   | Pulmonary embolism without acute cor pulmonale  | Diagnosis     | ICD-10-CM |
| I26.90  | Septic pulmonary embolism without acute cor pulmonale   | Diagnosis     | ICD-10-CM |
| I26.92  | Saddle embolus of pulmonary artery without acute cor pulmonale  | Diagnosis     | ICD-10-CM |
| I26.93  | Single subsegmental pulmonary embolism without acute cor pulmonale  | Diagnosis     | ICD-10-CM |
| I26.94  | Multiple subsegmental pulmonary emboli without acute cor pulmonale  | Diagnosis     | ICD-10-CM |
| I26.99  | Other pulmonary embolism without acute cor pulmonale  | Diagnosis     | ICD-10-CM |
| I27.0   | Primary pulmonary hypertension  | Diagnosis     | ICD-10-CM |
| I27.1   | Kyphoscoliotic heart disease  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description   | Code Category | Code Type |
|--------|---|---------------|-----------|
| I27.2  | Other secondary pulmonary hypertension                          | Diagnosis     | ICD-10-CM |
| I27.20 | Pulmonary hypertension, unspecified                             | Diagnosis     | ICD-10-CM |
| I27.21 | Secondary pulmonary arterial hypertension                       | Diagnosis     | ICD-10-CM |
| I27.22 | Pulmonary hypertension due to left heart disease                | Diagnosis     | ICD-10-CM |
| I27.23 | Pulmonary hypertension due to lung diseases and hypoxia         | Diagnosis     | ICD-10-CM |
| I27.24 | Chronic thromboembolic pulmonary hypertension                   | Diagnosis     | ICD-10-CM |
| I27.29 | Other secondary pulmonary hypertension                          | Diagnosis     | ICD-10-CM |
| I27.8  | Other specified pulmonary heart diseases                        | Diagnosis     | ICD-10-CM |
| I27.81 | Cor pulmonale (chronic)   | Diagnosis     | ICD-10-CM |
| I27.82 | Chronic pulmonary embolism                                      | Diagnosis     | ICD-10-CM |
| I27.83 | Eisenmenger's syndrome  | Diagnosis     | ICD-10-CM |
| I27.89 | Other specified pulmonary heart diseases                        | Diagnosis     | ICD-10-CM |
| I27.9  | Pulmonary heart disease, unspecified                            | Diagnosis     | ICD-10-CM |
| I28.0  | Arteriovenous fistula of pulmonary vessels                      | Diagnosis     | ICD-10-CM |
| I28.1  | Aneurysm of pulmonary artery                                    | Diagnosis     | ICD-10-CM |
| I28.8  | Other diseases of pulmonary vessels                             | Diagnosis     | ICD-10-CM |
| I28.9  | Disease of pulmonary vessels, unspecified                       | Diagnosis     | ICD-10-CM |
| I30.0  | Acute nonspecific idiopathic pericarditis                       | Diagnosis     | ICD-10-CM |
| I30.1  | Infective pericarditis  | Diagnosis     | ICD-10-CM |
| I30.8  | Other forms of acute pericarditis                               | Diagnosis     | ICD-10-CM |
| I30.9  | Acute pericarditis, unspecified                                 | Diagnosis     | ICD-10-CM |
| I31.0  | Chronic adhesive pericarditis                                   | Diagnosis     | ICD-10-CM |
| I31.1  | Chronic constrictive pericarditis                               | Diagnosis     | ICD-10-CM |
| I31.2  | Hemopericardium, not elsewhere classified                       | Diagnosis     | ICD-10-CM |
| I31.3  | Pericardial effusion (noninflammatory)                          | Diagnosis     | ICD-10-CM |
| I31.31 | Malignant pericardial effusion in diseases classified elsewhere | Diagnosis     | ICD-10-CM |
| I31.39 | Other pericardial effusion (noninflammatory)                    | Diagnosis     | ICD-10-CM |
| I31.4  | Cardiac tamponade   | Diagnosis     | ICD-10-CM |
| I31.8  | Other specified diseases of pericardium                         | Diagnosis     | ICD-10-CM |
| I31.9  | Disease of pericardium, unspecified                             | Diagnosis     | ICD-10-CM |
| I33.0  | Acute and subacute infective endocarditis                       | Diagnosis     | ICD-10-CM |
| I33.9  | Acute and subacute endocarditis, unspecified                    | Diagnosis     | ICD-10-CM |
| I34.0  | Nonrheumatic mitral (valve) insufficiency                       | Diagnosis     | ICD-10-CM |
| I34.1  | Nonrheumatic mitral (valve) prolapse                            | Diagnosis     | ICD-10-CM |
| I34.2  | Nonrheumatic mitral (valve) stenosis                            | Diagnosis     | ICD-10-CM |
| I34.8  | Other nonrheumatic mitral valve disorders                       | Diagnosis     | ICD-10-CM |
| I34.81 | Nonrheumatic mitral (valve) annulus calcification               | Diagnosis     | ICD-10-CM |
| I34.89 | Other nonrheumatic mitral valve disorders                       | Diagnosis     | ICD-10-CM |
| I34.9  | Nonrheumatic mitral valve disorder, unspecified                 | Diagnosis     | ICD-10-CM |
| I35.0  | Nonrheumatic aortic (valve) stenosis                            | Diagnosis     | ICD-10-CM |
| I35.1  | Nonrheumatic aortic (valve) insufficiency                       | Diagnosis     | ICD-10-CM |
| I35.2  | Nonrheumatic aortic (valve) stenosis with insufficiency         | Diagnosis     | ICD-10-CM |
| I35.8  | Other nonrheumatic aortic valve disorders                       | Diagnosis     | ICD-10-CM |
| I35.9  | Nonrheumatic aortic valve disorder, unspecified                 | Diagnosis     | ICD-10-CM |
| I36.0  | Nonrheumatic tricuspid (valve) stenosis                         | Diagnosis     | ICD-10-CM |
| I36.1  | Nonrheumatic tricuspid (valve) insufficiency                    | Diagnosis     | ICD-10-CM |
| I36.2  | Nonrheumatic tricuspid (valve) stenosis with insufficiency      | Diagnosis     | ICD-10-CM |
| I36.8  | Other nonrheumatic tricuspid valve disorders                    | Diagnosis     | ICD-10-CM |
| I36.9  | Nonrheumatic tricuspid valve disorder, unspecified              | Diagnosis     | ICD-10-CM |
| I37.0  | Nonrheumatic pulmonary valve stenosis                           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description  | Code Category | Code Type |
|--------|--|---------------|-----------|
| I37.1  | Nonrheumatic pulmonary valve insufficiency               | Diagnosis     | ICD-10-CM |
| I37.2  | Nonrheumatic pulmonary valve stenosis with insufficiency | Diagnosis     | ICD-10-CM |
| I37.8  | Other nonrheumatic pulmonary valve disorders             | Diagnosis     | ICD-10-CM |
| I37.9  | Nonrheumatic pulmonary valve disorder, unspecified       | Diagnosis     | ICD-10-CM |
| I40.0  | Infective myocarditis                                    | Diagnosis     | ICD-10-CM |
| I40.1  | Isolated myocarditis                                     | Diagnosis     | ICD-10-CM |
| I40.8  | Other acute myocarditis                                  | Diagnosis     | ICD-10-CM |
| I40.9  | Acute myocarditis, unspecified                           | Diagnosis     | ICD-10-CM |
| I42.0  | Dilated cardiomyopathy                                   | Diagnosis     | ICD-10-CM |
| I42.1  | Obstructive hypertrophic cardiomyopathy                  | Diagnosis     | ICD-10-CM |
| I42.2  | Other hypertrophic cardiomyopathy                        | Diagnosis     | ICD-10-CM |
| I42.3  | Endomyocardial (eosinophilic) disease                    | Diagnosis     | ICD-10-CM |
| I42.4  | Endocardial fibroelastosis                               | Diagnosis     | ICD-10-CM |
| I42.5  | Other restrictive cardiomyopathy                         | Diagnosis     | ICD-10-CM |
| I42.6  | Alcoholic cardiomyopathy                                 | Diagnosis     | ICD-10-CM |
| I42.7  | Cardiomyopathy due to drug and external agent            | Diagnosis     | ICD-10-CM |
| I42.8  | Other cardiomyopathies                                   | Diagnosis     | ICD-10-CM |
| I42.9  | Cardiomyopathy, unspecified                              | Diagnosis     | ICD-10-CM |
| I44.0  | Atrioventricular block, first degree                     | Diagnosis     | ICD-10-CM |
| I44.1  | Atrioventricular block, second degree                    | Diagnosis     | ICD-10-CM |
| I44.2  | Atrioventricular block, complete                         | Diagnosis     | ICD-10-CM |
| I44.3  | Other and unspecified atrioventricular block             | Diagnosis     | ICD-10-CM |
| I44.30 | Unspecified atrioventricular block                       | Diagnosis     | ICD-10-CM |
| I44.39 | Other atrioventricular block                             | Diagnosis     | ICD-10-CM |
| I44.4  | Left anterior fascicular block                           | Diagnosis     | ICD-10-CM |
| I44.5  | Left posterior fascicular block                          | Diagnosis     | ICD-10-CM |
| I44.6  | Other and unspecified fascicular block                   | Diagnosis     | ICD-10-CM |
| I44.60 | Unspecified fascicular block                             | Diagnosis     | ICD-10-CM |
| I44.69 | Other fascicular block                                   | Diagnosis     | ICD-10-CM |
| I44.7  | Left bundle-branch block, unspecified                    | Diagnosis     | ICD-10-CM |
| I45.0  | Right fascicular block                                   | Diagnosis     | ICD-10-CM |
| I45.1  | Other and unspecified right bundle-branch block          | Diagnosis     | ICD-10-CM |
| I45.10 | Unspecified right bundle-branch block                    | Diagnosis     | ICD-10-CM |
| I45.19 | Other right bundle-branch block                          | Diagnosis     | ICD-10-CM |
| I45.2  | Bifascicular block                                       | Diagnosis     | ICD-10-CM |
| I45.3  | Trifascicular block                                      | Diagnosis     | ICD-10-CM |
| I45.4  | Nonspecific intraventricular block                       | Diagnosis     | ICD-10-CM |
| I45.5  | Other specified heart block                              | Diagnosis     | ICD-10-CM |
| I45.6  | Pre-excitation syndrome                                  | Diagnosis     | ICD-10-CM |
| I45.8  | Other specified conduction disorders                     | Diagnosis     | ICD-10-CM |
| I45.81 | Long QT syndrome   | Diagnosis     | ICD-10-CM |
| I45.89 | Other specified conduction disorders                     | Diagnosis     | ICD-10-CM |
| I45.9  | Conduction disorder, unspecified                         | Diagnosis     | ICD-10-CM |
| I46.2  | Cardiac arrest due to underlying cardiac condition       | Diagnosis     | ICD-10-CM |
| I46.8  | Cardiac arrest due to other underlying condition         | Diagnosis     | ICD-10-CM |
| I46.9  | Cardiac arrest, cause unspecified                        | Diagnosis     | ICD-10-CM |
| I47.0  | Re-entry ventricular arrhythmia                          | Diagnosis     | ICD-10-CM |
| I47.1  | Supraventricular tachycardia                             | Diagnosis     | ICD-10-CM |
| I47.2  | Ventricular tachycardia                                  | Diagnosis     | ICD-10-CM |
| I47.20 | Ventricular tachycardia, unspecified                     | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| I47.21  | Torsades de pointes  | Diagnosis     | ICD-10-CM |
| I47.29  | Other ventricular tachycardia  | Diagnosis     | ICD-10-CM |
| I47.9   | Paroxysmal tachycardia, unspecified  | Diagnosis     | ICD-10-CM |
| I48.0   | Paroxysmal atrial fibrillation   | Diagnosis     | ICD-10-CM |
| I48.1   | Persistent atrial fibrillation   | Diagnosis     | ICD-10-CM |
| I48.11  | Longstanding persistent atrial fibrillation  | Diagnosis     | ICD-10-CM |
| I48.19  | Other persistent atrial fibrillation   | Diagnosis     | ICD-10-CM |
| I48.2   | Chronic atrial fibrillation  | Diagnosis     | ICD-10-CM |
| I48.20  | Chronic atrial fibrillation, unspecified   | Diagnosis     | ICD-10-CM |
| I48.21  | Permanent atrial fibrillation  | Diagnosis     | ICD-10-CM |
| I48.3   | Typical atrial flutter   | Diagnosis     | ICD-10-CM |
| I48.4   | Atypical atrial flutter  | Diagnosis     | ICD-10-CM |
| I48.9   | Unspecified atrial fibrillation and atrial flutter                                       | Diagnosis     | ICD-10-CM |
| I48.91  | Unspecified atrial fibrillation  | Diagnosis     | ICD-10-CM |
| I48.92  | Unspecified atrial flutter   | Diagnosis     | ICD-10-CM |
| I49.0   | Ventricular fibrillation and flutter   | Diagnosis     | ICD-10-CM |
| I49.01  | Ventricular fibrillation   | Diagnosis     | ICD-10-CM |
| I49.02  | Ventricular flutter  | Diagnosis     | ICD-10-CM |
| I49.1   | Atrial premature depolarization  | Diagnosis     | ICD-10-CM |
| I49.2   | Junctional premature depolarization  | Diagnosis     | ICD-10-CM |
| I49.3   | Ventricular premature depolarization   | Diagnosis     | ICD-10-CM |
| I49.4   | Other and unspecified premature depolarization   | Diagnosis     | ICD-10-CM |
| I49.40  | Unspecified premature depolarization   | Diagnosis     | ICD-10-CM |
| I49.49  | Other premature depolarization   | Diagnosis     | ICD-10-CM |
| I49.5   | Sick sinus syndrome  | Diagnosis     | ICD-10-CM |
| I49.8   | Other specified cardiac arrhythmias  | Diagnosis     | ICD-10-CM |
| I49.9   | Cardiac arrhythmia, unspecified  | Diagnosis     | ICD-10-CM |
| I50.1   | Left ventricular failure, unspecified  | Diagnosis     | ICD-10-CM |
| I50.2   | Systolic (congestive) heart failure  | Diagnosis     | ICD-10-CM |
| I50.20  | Unspecified systolic (congestive) heart failure  | Diagnosis     | ICD-10-CM |
| I50.21  | Acute systolic (congestive) heart failure  | Diagnosis     | ICD-10-CM |
| I50.22  | Chronic systolic (congestive) heart failure  | Diagnosis     | ICD-10-CM |
| I50.23  | Acute on chronic systolic (congestive) heart failure                                     | Diagnosis     | ICD-10-CM |
| I50.3   | Diastolic (congestive) heart failure   | Diagnosis     | ICD-10-CM |
| I50.30  | Unspecified diastolic (congestive) heart failure   | Diagnosis     | ICD-10-CM |
| I50.31  | Acute diastolic (congestive) heart failure   | Diagnosis     | ICD-10-CM |
| I50.32  | Chronic diastolic (congestive) heart failure   | Diagnosis     | ICD-10-CM |
| I50.33  | Acute on chronic diastolic (congestive) heart failure                                    | Diagnosis     | ICD-10-CM |
| I50.4   | Combined systolic (congestive) and diastolic (congestive) heart failure                  | Diagnosis     | ICD-10-CM |
| I50.40  | Unspecified combined systolic (congestive) and diastolic (congestive) heart failure      | Diagnosis     | ICD-10-CM |
| I50.41  | Acute combined systolic (congestive) and diastolic (congestive) heart failure            | Diagnosis     | ICD-10-CM |
| I50.42  | Chronic combined systolic (congestive) and diastolic (congestive) heart failure          | Diagnosis     | ICD-10-CM |
| I50.43  | Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure | Diagnosis     | ICD-10-CM |
| I50.8   | Other heart failure  | Diagnosis     | ICD-10-CM |
| I50.81  | Right heart failure  | Diagnosis     | ICD-10-CM |
| I50.810 | Right heart failure, unspecified   | Diagnosis     | ICD-10-CM |
| I50.811 | Acute right heart failure  | Diagnosis     | ICD-10-CM |
| I50.812 | Chronic right heart failure  | Diagnosis     | ICD-10-CM |
| I50.813 | Acute on chronic right heart failure   | Diagnosis     | ICD-10-CM |
| I50.814 | Right heart failure due to left heart failure  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description  | Code Category | Code Type |
|--------|--|---------------|-----------|
| I50.82 | Biventricular heart failure  | Diagnosis     | ICD-10-CM |
| I50.83 | High output heart failure  | Diagnosis     | ICD-10-CM |
| I50.84 | End stage heart failure  | Diagnosis     | ICD-10-CM |
| I50.89 | Other heart failure  | Diagnosis     | ICD-10-CM |
| I50.9  | Heart failure, unspecified   | Diagnosis     | ICD-10-CM |
| I51.0  | Cardiac septal defect, acquired  | Diagnosis     | ICD-10-CM |
| I51.1  | Rupture of chordae tendineae, not elsewhere classified                               | Diagnosis     | ICD-10-CM |
| I51.2  | Rupture of papillary muscle, not elsewhere classified                                | Diagnosis     | ICD-10-CM |
| I51.3  | Intracardiac thrombosis, not elsewhere classified                                    | Diagnosis     | ICD-10-CM |
| I51.4  | Myocarditis, unspecified   | Diagnosis     | ICD-10-CM |
| I51.5  | Myocardial degeneration  | Diagnosis     | ICD-10-CM |
| I51.7  | Cardiomegaly   | Diagnosis     | ICD-10-CM |
| I51.8  | Other ill-defined heart diseases   | Diagnosis     | ICD-10-CM |
| I51.81 | Takotsubo syndrome   | Diagnosis     | ICD-10-CM |
| I51.89 | Other ill-defined heart diseases   | Diagnosis     | ICD-10-CM |
| I51.9  | Heart disease, unspecified   | Diagnosis     | ICD-10-CM |
| I60.0  | Nontraumatic subarachnoid hemorrhage from carotid siphon and bifurcation             | Diagnosis     | ICD-10-CM |
| I60.00 | Nontraumatic subarachnoid hemorrhage from unspecified carotid siphon and bifurcation | Diagnosis     | ICD-10-CM |
| I60.01 | Nontraumatic subarachnoid hemorrhage from right carotid siphon and bifurcation       | Diagnosis     | ICD-10-CM |
| I60.02 | Nontraumatic subarachnoid hemorrhage from left carotid siphon and bifurcation        | Diagnosis     | ICD-10-CM |
| I60.1  | Nontraumatic subarachnoid hemorrhage from middle cerebral artery                     | Diagnosis     | ICD-10-CM |
| I60.10 | Nontraumatic subarachnoid hemorrhage from unspecified middle cerebral artery         | Diagnosis     | ICD-10-CM |
| I60.11 | Nontraumatic subarachnoid hemorrhage from right middle cerebral artery               | Diagnosis     | ICD-10-CM |
| I60.12 | Nontraumatic subarachnoid hemorrhage from left middle cerebral artery                | Diagnosis     | ICD-10-CM |
| I60.2  | Nontraumatic subarachnoid hemorrhage from anterior communicating artery              | Diagnosis     | ICD-10-CM |
| I60.20 | Nontraumatic subarachnoid hemorrhage from unspecified anterior communicating artery  | Diagnosis     | ICD-10-CM |
| I60.21 | Nontraumatic subarachnoid hemorrhage from right anterior communicating artery        | Diagnosis     | ICD-10-CM |
| I60.22 | Nontraumatic subarachnoid hemorrhage from left anterior communicating artery         | Diagnosis     | ICD-10-CM |
| I60.3  | Nontraumatic subarachnoid hemorrhage from posterior communicating artery             | Diagnosis     | ICD-10-CM |
| I60.30 | Nontraumatic subarachnoid hemorrhage from unspecified posterior communicating artery | Diagnosis     | ICD-10-CM |
| I60.31 | Nontraumatic subarachnoid hemorrhage from right posterior communicating artery       | Diagnosis     | ICD-10-CM |
| I60.32 | Nontraumatic subarachnoid hemorrhage from left posterior communicating artery        | Diagnosis     | ICD-10-CM |
| I60.4  | Nontraumatic subarachnoid hemorrhage from basilar artery                             | Diagnosis     | ICD-10-CM |
| I60.5  | Nontraumatic subarachnoid hemorrhage from vertebral artery                           | Diagnosis     | ICD-10-CM |
| I60.50 | Nontraumatic subarachnoid hemorrhage from unspecified vertebral artery               | Diagnosis     | ICD-10-CM |
| I60.51 | Nontraumatic subarachnoid hemorrhage from right vertebral artery                     | Diagnosis     | ICD-10-CM |
| I60.52 | Nontraumatic subarachnoid hemorrhage from left vertebral artery                      | Diagnosis     | ICD-10-CM |
| I60.6  | Nontraumatic subarachnoid hemorrhage from other intracranial arteries                | Diagnosis     | ICD-10-CM |
| I60.7  | Nontraumatic subarachnoid hemorrhage from unspecified intracranial artery            | Diagnosis     | ICD-10-CM |
| I60.8  | Other nontraumatic subarachnoid hemorrhage   | Diagnosis     | ICD-10-CM |
| I60.9  | Nontraumatic subarachnoid hemorrhage, unspecified                                    | Diagnosis     | ICD-10-CM |
| I61.0  | Nontraumatic intracerebral hemorrhage in hemisphere, subcortical                     | Diagnosis     | ICD-10-CM |
| I61.1  | Nontraumatic intracerebral hemorrhage in hemisphere, cortical                        | Diagnosis     | ICD-10-CM |
| I61.2  | Nontraumatic intracerebral hemorrhage in hemisphere, unspecified                     | Diagnosis     | ICD-10-CM |
| I61.3  | Nontraumatic intracerebral hemorrhage in brain stem                                  | Diagnosis     | ICD-10-CM |
| I61.4  | Nontraumatic intracerebral hemorrhage in cerebellum                                  | Diagnosis     | ICD-10-CM |
| I61.5  | Nontraumatic intracerebral hemorrhage, intraventricular                              | Diagnosis     | ICD-10-CM |
| I61.6  | Nontraumatic intracerebral hemorrhage, multiple localized                            | Diagnosis     | ICD-10-CM |
| I61.8  | Other nontraumatic intracerebral hemorrhage  | Diagnosis     | ICD-10-CM |
| I61.9  | Nontraumatic intracerebral hemorrhage, unspecified                                   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| I62.0   | Nontraumatic subdural hemorrhage   | Diagnosis     | ICD-10-CM |
| I62.00  | Nontraumatic subdural hemorrhage, unspecified  | Diagnosis     | ICD-10-CM |
| I62.01  | Nontraumatic acute subdural hemorrhage   | Diagnosis     | ICD-10-CM |
| I62.02  | Nontraumatic subacute subdural hemorrhage  | Diagnosis     | ICD-10-CM |
| I62.03  | Nontraumatic chronic subdural hemorrhage   | Diagnosis     | ICD-10-CM |
| I62.1   | Nontraumatic extradural hemorrhage   | Diagnosis     | ICD-10-CM |
| I62.9   | Nontraumatic intracranial hemorrhage, unspecified  | Diagnosis     | ICD-10-CM |
| I63.0   | Cerebral infarction due to thrombosis of precerebral arteries                                    | Diagnosis     | ICD-10-CM |
| I63.00  | Cerebral infarction due to thrombosis of unspecified precerebral artery                          | Diagnosis     | ICD-10-CM |
| I63.01  | Cerebral infarction due to thrombosis of vertebral artery  | Diagnosis     | ICD-10-CM |
| I63.011 | Cerebral infarction due to thrombosis of right vertebral artery                                  | Diagnosis     | ICD-10-CM |
| I63.012 | Cerebral infarction due to thrombosis of left vertebral artery                                   | Diagnosis     | ICD-10-CM |
| I63.013 | Cerebral infarction due to thrombosis of bilateral vertebral arteries                            | Diagnosis     | ICD-10-CM |
| I63.019 | Cerebral infarction due to thrombosis of unspecified vertebral artery                            | Diagnosis     | ICD-10-CM |
| I63.02  | Cerebral infarction due to thrombosis of basilar artery  | Diagnosis     | ICD-10-CM |
| I63.03  | Cerebral infarction due to thrombosis of carotid artery  | Diagnosis     | ICD-10-CM |
| I63.031 | Cerebral infarction due to thrombosis of right carotid artery                                    | Diagnosis     | ICD-10-CM |
| I63.032 | Cerebral infarction due to thrombosis of left carotid artery                                     | Diagnosis     | ICD-10-CM |
| I63.033 | Cerebral infarction due to thrombosis of bilateral carotid arteries                              | Diagnosis     | ICD-10-CM |
| I63.039 | Cerebral infarction due to thrombosis of unspecified carotid artery                              | Diagnosis     | ICD-10-CM |
| I63.09  | Cerebral infarction due to thrombosis of other precerebral artery                                | Diagnosis     | ICD-10-CM |
| I63.1   | Cerebral infarction due to embolism of precerebral arteries                                      | Diagnosis     | ICD-10-CM |
| I63.10  | Cerebral infarction due to embolism of unspecified precerebral artery                            | Diagnosis     | ICD-10-CM |
| I63.11  | Cerebral infarction due to embolism of vertebral artery  | Diagnosis     | ICD-10-CM |
| I63.111 | Cerebral infarction due to embolism of right vertebral artery                                    | Diagnosis     | ICD-10-CM |
| I63.112 | Cerebral infarction due to embolism of left vertebral artery                                     | Diagnosis     | ICD-10-CM |
| I63.113 | Cerebral infarction due to embolism of bilateral vertebral arteries                              | Diagnosis     | ICD-10-CM |
| I63.119 | Cerebral infarction due to embolism of unspecified vertebral artery                              | Diagnosis     | ICD-10-CM |
| I63.12  | Cerebral infarction due to embolism of basilar artery  | Diagnosis     | ICD-10-CM |
| I63.13  | Cerebral infarction due to embolism of carotid artery  | Diagnosis     | ICD-10-CM |
| I63.131 | Cerebral infarction due to embolism of right carotid artery                                      | Diagnosis     | ICD-10-CM |
| I63.132 | Cerebral infarction due to embolism of left carotid artery                                       | Diagnosis     | ICD-10-CM |
| I63.133 | Cerebral infarction due to embolism of bilateral carotid arteries                                | Diagnosis     | ICD-10-CM |
| I63.139 | Cerebral infarction due to embolism of unspecified carotid artery                                | Diagnosis     | ICD-10-CM |
| I63.19  | Cerebral infarction due to embolism of other precerebral artery                                  | Diagnosis     | ICD-10-CM |
| I63.2   | Cerebral infarction due to unspecified occlusion or stenosis of precerebral arteries             | Diagnosis     | ICD-10-CM |
| I63.20  | Cerebral infarction due to unspecified occlusion or stenosis of unspecified precerebral arteries | Diagnosis     | ICD-10-CM |
| I63.21  | Cerebral infarction due to unspecified occlusion or stenosis of vertebral arteries               | Diagnosis     | ICD-10-CM |
| I63.211 | Cerebral infarction due to unspecified occlusion or stenosis of right vertebral artery           | Diagnosis     | ICD-10-CM |
| I63.212 | Cerebral infarction due to unspecified occlusion or stenosis of left vertebral artery            | Diagnosis     | ICD-10-CM |
| I63.213 | Cerebral infarction due to unspecified occlusion or stenosis of bilateral vertebral arteries     | Diagnosis     | ICD-10-CM |
| I63.219 | Cerebral infarction due to unspecified occlusion or stenosis of unspecified vertebral artery     | Diagnosis     | ICD-10-CM |
| I63.22  | Cerebral infarction due to unspecified occlusion or stenosis of basilar artery                   | Diagnosis     | ICD-10-CM |
| I63.23  | Cerebral infarction due to unspecified occlusion or stenosis of carotid arteries                 | Diagnosis     | ICD-10-CM |
| I63.231 | Cerebral infarction due to unspecified occlusion or stenosis of right carotid arteries           | Diagnosis     | ICD-10-CM |
| I63.232 | Cerebral infarction due to unspecified occlusion or stenosis of left carotid arteries            | Diagnosis     | ICD-10-CM |
| I63.233 | Cerebral infarction due to unspecified occlusion or stenosis of bilateral carotid arteries       | Diagnosis     | ICD-10-CM |
| I63.239 | Cerebral infarction due to unspecified occlusion or stenosis of unspecified carotid artery       | Diagnosis     | ICD-10-CM |
| I63.29  | Cerebral infarction due to unspecified occlusion or stenosis of other precerebral arteries       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| I63.3   | Cerebral infarction due to thrombosis of cerebral arteries                                   | Diagnosis     | ICD-10-CM |
| I63.30  | Cerebral infarction due to thrombosis of unspecified cerebral artery                         | Diagnosis     | ICD-10-CM |
| I63.31  | Cerebral infarction due to thrombosis of middle cerebral artery                              | Diagnosis     | ICD-10-CM |
| I63.311 | Cerebral infarction due to thrombosis of right middle cerebral artery                        | Diagnosis     | ICD-10-CM |
| I63.312 | Cerebral infarction due to thrombosis of left middle cerebral artery                         | Diagnosis     | ICD-10-CM |
| I63.313 | Cerebral infarction due to thrombosis of bilateral middle cerebral arteries                  | Diagnosis     | ICD-10-CM |
| I63.319 | Cerebral infarction due to thrombosis of unspecified middle cerebral artery                  | Diagnosis     | ICD-10-CM |
| I63.32  | Cerebral infarction due to thrombosis of anterior cerebral artery                            | Diagnosis     | ICD-10-CM |
| I63.321 | Cerebral infarction due to thrombosis of right anterior cerebral artery                      | Diagnosis     | ICD-10-CM |
| I63.322 | Cerebral infarction due to thrombosis of left anterior cerebral artery                       | Diagnosis     | ICD-10-CM |
| I63.323 | Cerebral infarction due to thrombosis of bilateral anterior cerebral arteries                | Diagnosis     | ICD-10-CM |
| I63.329 | Cerebral infarction due to thrombosis of unspecified anterior cerebral artery                | Diagnosis     | ICD-10-CM |
| I63.33  | Cerebral infarction due to thrombosis of posterior cerebral artery                           | Diagnosis     | ICD-10-CM |
| I63.331 | Cerebral infarction due to thrombosis of right posterior cerebral artery                     | Diagnosis     | ICD-10-CM |
| I63.332 | Cerebral infarction due to thrombosis of left posterior cerebral artery                      | Diagnosis     | ICD-10-CM |
| I63.333 | Cerebral infarction due to thrombosis of bilateral posterior cerebral arteries               | Diagnosis     | ICD-10-CM |
| I63.339 | Cerebral infarction due to thrombosis of unspecified posterior cerebral artery               | Diagnosis     | ICD-10-CM |
| I63.34  | Cerebral infarction due to thrombosis of cerebellar artery                                   | Diagnosis     | ICD-10-CM |
| I63.341 | Cerebral infarction due to thrombosis of right cerebellar artery                             | Diagnosis     | ICD-10-CM |
| I63.342 | Cerebral infarction due to thrombosis of left cerebellar artery                              | Diagnosis     | ICD-10-CM |
| I63.343 | Cerebral infarction due to thrombosis of bilateral cerebellar arteries                       | Diagnosis     | ICD-10-CM |
| I63.349 | Cerebral infarction due to thrombosis of unspecified cerebellar artery                       | Diagnosis     | ICD-10-CM |
| I63.39  | Cerebral infarction due to thrombosis of other cerebral artery                               | Diagnosis     | ICD-10-CM |
| I63.4   | Cerebral infarction due to embolism of cerebral arteries                                     | Diagnosis     | ICD-10-CM |
| I63.40  | Cerebral infarction due to embolism of unspecified cerebral artery                           | Diagnosis     | ICD-10-CM |
| I63.41  | Cerebral infarction due to embolism of middle cerebral artery                                | Diagnosis     | ICD-10-CM |
| I63.411 | Cerebral infarction due to embolism of right middle cerebral artery                          | Diagnosis     | ICD-10-CM |
| I63.412 | Cerebral infarction due to embolism of left middle cerebral artery                           | Diagnosis     | ICD-10-CM |
| I63.413 | Cerebral infarction due to embolism of bilateral middle cerebral arteries                    | Diagnosis     | ICD-10-CM |
| I63.419 | Cerebral infarction due to embolism of unspecified middle cerebral artery                    | Diagnosis     | ICD-10-CM |
| I63.42  | Cerebral infarction due to embolism of anterior cerebral artery                              | Diagnosis     | ICD-10-CM |
| I63.421 | Cerebral infarction due to embolism of right anterior cerebral artery                        | Diagnosis     | ICD-10-CM |
| I63.422 | Cerebral infarction due to embolism of left anterior cerebral artery                         | Diagnosis     | ICD-10-CM |
| I63.423 | Cerebral infarction due to embolism of bilateral anterior cerebral arteries                  | Diagnosis     | ICD-10-CM |
| I63.429 | Cerebral infarction due to embolism of unspecified anterior cerebral artery                  | Diagnosis     | ICD-10-CM |
| I63.43  | Cerebral infarction due to embolism of posterior cerebral artery                             | Diagnosis     | ICD-10-CM |
| I63.431 | Cerebral infarction due to embolism of right posterior cerebral artery                       | Diagnosis     | ICD-10-CM |
| I63.432 | Cerebral infarction due to embolism of left posterior cerebral artery                        | Diagnosis     | ICD-10-CM |
| I63.433 | Cerebral infarction due to embolism of bilateral posterior cerebral arteries                 | Diagnosis     | ICD-10-CM |
| I63.439 | Cerebral infarction due to embolism of unspecified posterior cerebral artery                 | Diagnosis     | ICD-10-CM |
| I63.44  | Cerebral infarction due to embolism of cerebellar artery                                     | Diagnosis     | ICD-10-CM |
| I63.441 | Cerebral infarction due to embolism of right cerebellar artery                               | Diagnosis     | ICD-10-CM |
| I63.442 | Cerebral infarction due to embolism of left cerebellar artery                                | Diagnosis     | ICD-10-CM |
| I63.443 | Cerebral infarction due to embolism of bilateral cerebellar arteries                         | Diagnosis     | ICD-10-CM |
| I63.449 | Cerebral infarction due to embolism of unspecified cerebellar artery                         | Diagnosis     | ICD-10-CM |
| I63.49  | Cerebral infarction due to embolism of other cerebral artery                                 | Diagnosis     | ICD-10-CM |
| I63.5   | Cerebral infarction due to unspecified occlusion or stenosis of cerebral arteries            | Diagnosis     | ICD-10-CM |
| I63.50  | Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebral artery  | Diagnosis     | ICD-10-CM |
| I63.51  | Cerebral infarction due to unspecified occlusion or stenosis of middle cerebral artery       | Diagnosis     | ICD-10-CM |
| I63.511 | Cerebral infarction due to unspecified occlusion or stenosis of right middle cerebral artery | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| I63.512 | Cerebral infarction due to unspecified occlusion or stenosis of left middle cerebral artery           | Diagnosis     | ICD-10-CM |
| I63.513 | Cerebral infarction due to unspecified occlusion or stenosis of bilateral middle cerebral arteries    | Diagnosis     | ICD-10-CM |
| I63.519 | Cerebral infarction due to unspecified occlusion or stenosis of unspecified middle cerebral artery    | Diagnosis     | ICD-10-CM |
| I63.52  | Cerebral infarction due to unspecified occlusion or stenosis of anterior cerebral artery              | Diagnosis     | ICD-10-CM |
| I63.521 | Cerebral infarction due to unspecified occlusion or stenosis of right anterior cerebral artery        | Diagnosis     | ICD-10-CM |
| I63.522 | Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery         | Diagnosis     | ICD-10-CM |
| I63.523 | Cerebral infarction due to unspecified occlusion or stenosis of bilateral anterior cerebral arteries  | Diagnosis     | ICD-10-CM |
| I63.529 | Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery  | Diagnosis     | ICD-10-CM |
| I63.53  | Cerebral infarction due to unspecified occlusion or stenosis of posterior cerebral artery             | Diagnosis     | ICD-10-CM |
| I63.531 | Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery       | Diagnosis     | ICD-10-CM |
| I63.532 | Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery        | Diagnosis     | ICD-10-CM |
| I63.533 | Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior cerebral arteries | Diagnosis     | ICD-10-CM |
| I63.539 | Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery | Diagnosis     | ICD-10-CM |
| I63.54  | Cerebral infarction due to unspecified occlusion or stenosis of cerebellar artery                     | Diagnosis     | ICD-10-CM |
| I63.541 | Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery               | Diagnosis     | ICD-10-CM |
| I63.542 | Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery                | Diagnosis     | ICD-10-CM |
| I63.543 | Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries         | Diagnosis     | ICD-10-CM |
| I63.549 | Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery         | Diagnosis     | ICD-10-CM |
| I63.59  | Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery                 | Diagnosis     | ICD-10-CM |
| I63.6   | Cerebral infarction due to cerebral venous thrombosis, nonpyogenic                                    | Diagnosis     | ICD-10-CM |
| I63.8   | Other cerebral infarction   | Diagnosis     | ICD-10-CM |
| I63.81  | Other cerebral infarction due to occlusion or stenosis of small artery                                | Diagnosis     | ICD-10-CM |
| I63.89  | Other cerebral infarction   | Diagnosis     | ICD-10-CM |
| I63.9   | Cerebral infarction, unspecified  | Diagnosis     | ICD-10-CM |
| I65.0   | Occlusion and stenosis of vertebral artery  | Diagnosis     | ICD-10-CM |
| I65.01  | Occlusion and stenosis of right vertebral artery  | Diagnosis     | ICD-10-CM |
| I65.02  | Occlusion and stenosis of left vertebral artery   | Diagnosis     | ICD-10-CM |
| I65.03  | Occlusion and stenosis of bilateral vertebral arteries  | Diagnosis     | ICD-10-CM |
| I65.09  | Occlusion and stenosis of unspecified vertebral artery  | Diagnosis     | ICD-10-CM |
| I65.1   | Occlusion and stenosis of basilar artery  | Diagnosis     | ICD-10-CM |
| I65.2   | Occlusion and stenosis of carotid artery  | Diagnosis     | ICD-10-CM |
| I65.21  | Occlusion and stenosis of right carotid artery  | Diagnosis     | ICD-10-CM |
| I65.22  | Occlusion and stenosis of left carotid artery   | Diagnosis     | ICD-10-CM |
| I65.23  | Occlusion and stenosis of bilateral carotid arteries  | Diagnosis     | ICD-10-CM |
| I65.29  | Occlusion and stenosis of unspecified carotid artery  | Diagnosis     | ICD-10-CM |
| I65.8   | Occlusion and stenosis of other precerebral arteries  | Diagnosis     | ICD-10-CM |
| I65.9   | Occlusion and stenosis of unspecified precerebral artery  | Diagnosis     | ICD-10-CM |
| I66.0   | Occlusion and stenosis of middle cerebral artery  | Diagnosis     | ICD-10-CM |
| I66.01  | Occlusion and stenosis of right middle cerebral artery  | Diagnosis     | ICD-10-CM |
| I66.02  | Occlusion and stenosis of left middle cerebral artery   | Diagnosis     | ICD-10-CM |
| I66.03  | Occlusion and stenosis of bilateral middle cerebral arteries  | Diagnosis     | ICD-10-CM |
| I66.09  | Occlusion and stenosis of unspecified middle cerebral artery  | Diagnosis     | ICD-10-CM |
| I66.1   | Occlusion and stenosis of anterior cerebral artery  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| I66.11  | Occlusion and stenosis of right anterior cerebral artery  | Diagnosis     | ICD-10-CM |
| I66.12  | Occlusion and stenosis of left anterior cerebral artery   | Diagnosis     | ICD-10-CM |
| I66.13  | Occlusion and stenosis of bilateral anterior cerebral arteries  | Diagnosis     | ICD-10-CM |
| I66.19  | Occlusion and stenosis of unspecified anterior cerebral artery  | Diagnosis     | ICD-10-CM |
| I66.2   | Occlusion and stenosis of posterior cerebral artery   | Diagnosis     | ICD-10-CM |
| I66.21  | Occlusion and stenosis of right posterior cerebral artery   | Diagnosis     | ICD-10-CM |
| I66.22  | Occlusion and stenosis of left posterior cerebral artery  | Diagnosis     | ICD-10-CM |
| I66.23  | Occlusion and stenosis of bilateral posterior cerebral arteries   | Diagnosis     | ICD-10-CM |
| I66.29  | Occlusion and stenosis of unspecified posterior cerebral artery   | Diagnosis     | ICD-10-CM |
| I66.3   | Occlusion and stenosis of cerebellar arteries   | Diagnosis     | ICD-10-CM |
| I66.8   | Occlusion and stenosis of other cerebral arteries   | Diagnosis     | ICD-10-CM |
| I66.9   | Occlusion and stenosis of unspecified cerebral artery   | Diagnosis     | ICD-10-CM |
| I67.0   | Dissection of cerebral arteries, nonruptured  | Diagnosis     | ICD-10-CM |
| I67.1   | Cerebral aneurysm, nonruptured  | Diagnosis     | ICD-10-CM |
| I67.2   | Cerebral atherosclerosis  | Diagnosis     | ICD-10-CM |
| I67.3   | Progressive vascular leukoencephalopathy  | Diagnosis     | ICD-10-CM |
| I67.4   | Hypertensive encephalopathy   | Diagnosis     | ICD-10-CM |
| I67.5   | Moyamoya disease  | Diagnosis     | ICD-10-CM |
| I67.6   | Nonpyogenic thrombosis of intracranial venous system  | Diagnosis     | ICD-10-CM |
| I67.7   | Cerebral arteritis, not elsewhere classified  | Diagnosis     | ICD-10-CM |
| I67.8   | Other specified cerebrovascular diseases  | Diagnosis     | ICD-10-CM |
| I67.81  | Acute cerebrovascular insufficiency   | Diagnosis     | ICD-10-CM |
| I67.82  | Cerebral ischemia   | Diagnosis     | ICD-10-CM |
| I67.83  | Posterior reversible encephalopathy syndrome  | Diagnosis     | ICD-10-CM |
| I67.84  | Cerebral vasospasm and vasoconstriction   | Diagnosis     | ICD-10-CM |
| I67.841 | Reversible cerebrovascular vasoconstriction syndrome  | Diagnosis     | ICD-10-CM |
| I67.848 | Other cerebrovascular vasospasm and vasoconstriction  | Diagnosis     | ICD-10-CM |
| I67.85  | Hereditary cerebrovascular diseases   | Diagnosis     | ICD-10-CM |
| I67.850 | Cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy                  | Diagnosis     | ICD-10-CM |
| I67.858 | Other hereditary cerebrovascular disease  | Diagnosis     | ICD-10-CM |
| I67.89  | Other cerebrovascular disease   | Diagnosis     | ICD-10-CM |
| I67.9   | Cerebrovascular disease, unspecified  | Diagnosis     | ICD-10-CM |
| I68.0   | Cerebral amyloid angiopathy   | Diagnosis     | ICD-10-CM |
| I68.2   | Cerebral arteritis in other diseases classified elsewhere   | Diagnosis     | ICD-10-CM |
| I68.8   | Other cerebrovascular disorders in diseases classified elsewhere  | Diagnosis     | ICD-10-CM |
| I69.0   | Sequelae of nontraumatic subarachnoid hemorrhage  | Diagnosis     | ICD-10-CM |
| I69.00  | Unspecified sequelae of nontraumatic subarachnoid hemorrhage  | Diagnosis     | ICD-10-CM |
| I69.01  | Cognitive deficits following nontraumatic subarachnoid hemorrhage   | Diagnosis     | ICD-10-CM |
| I69.010 | Attention and concentration deficit following nontraumatic subarachnoid hemorrhage                          | Diagnosis     | ICD-10-CM |
| I69.011 | Memory deficit following nontraumatic subarachnoid hemorrhage   | Diagnosis     | ICD-10-CM |
| I69.012 | Visuospatial deficit and spatial neglect following nontraumatic subarachnoid hemorrhage                     | Diagnosis     | ICD-10-CM |
| I69.013 | Psychomotor deficit following nontraumatic subarachnoid hemorrhage  | Diagnosis     | ICD-10-CM |
| I69.014 | Frontal lobe and executive function deficit following nontraumatic subarachnoid hemorrhage                  | Diagnosis     | ICD-10-CM |
| I69.015 | Cognitive social or emotional deficit following nontraumatic subarachnoid hemorrhage                        | Diagnosis     | ICD-10-CM |
| I69.018 | Other symptoms and signs involving cognitive functions following nontraumatic subarachnoid hemorrhage       | Diagnosis     | ICD-10-CM |
| I69.019 | Unspecified symptoms and signs involving cognitive functions following nontraumatic subarachnoid hemorrhage | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| I69.02  | Speech and language deficits following nontraumatic subarachnoid hemorrhage                                 | Diagnosis     | ICD-10-CM |
| I69.020 | Aphasia following nontraumatic subarachnoid hemorrhage  | Diagnosis     | ICD-10-CM |
| I69.021 | Dysphasia following nontraumatic subarachnoid hemorrhage  | Diagnosis     | ICD-10-CM |
| I69.022 | Dysarthria following nontraumatic subarachnoid hemorrhage   | Diagnosis     | ICD-10-CM |
| I69.023 | Fluency disorder following nontraumatic subarachnoid hemorrhage   | Diagnosis     | ICD-10-CM |
| I69.028 | Other speech and language deficits following nontraumatic subarachnoid hemorrhage                           | Diagnosis     | ICD-10-CM |
| I69.03  | Monoplegia of upper limb following nontraumatic subarachnoid hemorrhage                                     | Diagnosis     | ICD-10-CM |
| I69.031 | Monoplegia of upper limb following nontraumatic subarachnoid hemorrhage affecting right dominant side       | Diagnosis     | ICD-10-CM |
| I69.032 | Monoplegia of upper limb following nontraumatic subarachnoid hemorrhage affecting left dominant side        | Diagnosis     | ICD-10-CM |
| I69.033 | Monoplegia of upper limb following nontraumatic subarachnoid hemorrhage affecting right non-dominant side   | Diagnosis     | ICD-10-CM |
| I69.034 | Monoplegia of upper limb following nontraumatic subarachnoid hemorrhage affecting left non-dominant side    | Diagnosis     | ICD-10-CM |
| I69.039 | Monoplegia of upper limb following nontraumatic subarachnoid hemorrhage affecting unspecified side          | Diagnosis     | ICD-10-CM |
| I69.04  | Monoplegia of lower limb following nontraumatic subarachnoid hemorrhage                                     | Diagnosis     | ICD-10-CM |
| I69.041 | Monoplegia of lower limb following nontraumatic subarachnoid hemorrhage affecting right dominant side       | Diagnosis     | ICD-10-CM |
| I69.042 | Monoplegia of lower limb following nontraumatic subarachnoid hemorrhage affecting left dominant side        | Diagnosis     | ICD-10-CM |
| I69.043 | Monoplegia of lower limb following nontraumatic subarachnoid hemorrhage affecting right non-dominant side   | Diagnosis     | ICD-10-CM |
| I69.044 | Monoplegia of lower limb following nontraumatic subarachnoid hemorrhage affecting left non-dominant side    | Diagnosis     | ICD-10-CM |
| I69.049 | Monoplegia of lower limb following nontraumatic subarachnoid hemorrhage affecting unspecified side          | Diagnosis     | ICD-10-CM |
| I69.05  | Hemiplegia and hemiparesis following nontraumatic subarachnoid hemorrhage                                   | Diagnosis     | ICD-10-CM |
| I69.051 | Hemiplegia and hemiparesis following nontraumatic subarachnoid hemorrhage affecting right dominant side     | Diagnosis     | ICD-10-CM |
| I69.052 | Hemiplegia and hemiparesis following nontraumatic subarachnoid hemorrhage affecting left dominant side      | Diagnosis     | ICD-10-CM |
| I69.053 | Hemiplegia and hemiparesis following nontraumatic subarachnoid hemorrhage affecting right non-dominant side | Diagnosis     | ICD-10-CM |
| I69.054 | Hemiplegia and hemiparesis following nontraumatic subarachnoid hemorrhage affecting left non-dominant side  | Diagnosis     | ICD-10-CM |
| I69.059 | Hemiplegia and hemiparesis following nontraumatic subarachnoid hemorrhage affecting unspecified side        | Diagnosis     | ICD-10-CM |
| I69.06  | Other paralytic syndrome following nontraumatic subarachnoid hemorrhage                                     | Diagnosis     | ICD-10-CM |
| I69.061 | Other paralytic syndrome following nontraumatic subarachnoid hemorrhage affecting right dominant side       | Diagnosis     | ICD-10-CM |
| I69.062 | Other paralytic syndrome following nontraumatic subarachnoid hemorrhage affecting left dominant side        | Diagnosis     | ICD-10-CM |
| I69.063 | Other paralytic syndrome following nontraumatic subarachnoid hemorrhage affecting right non-dominant side   | Diagnosis     | ICD-10-CM |
| I69.064 | Other paralytic syndrome following nontraumatic subarachnoid hemorrhage affecting left non-dominant side    | Diagnosis     | ICD-10-CM |
| I69.065 | Other paralytic syndrome following nontraumatic subarachnoid hemorrhage, bilateral                          | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| I69.069 | Other paralytic syndrome following nontraumatic subarachnoid hemorrhage affecting unspecified side           | Diagnosis     | ICD-10-CM |
| I69.09  | Other sequelae of nontraumatic subarachnoid hemorrhage   | Diagnosis     | ICD-10-CM |
| I69.090 | Apraxia following nontraumatic subarachnoid hemorrhage   | Diagnosis     | ICD-10-CM |
| I69.091 | Dysphagia following nontraumatic subarachnoid hemorrhage   | Diagnosis     | ICD-10-CM |
| I69.092 | Facial weakness following nontraumatic subarachnoid hemorrhage   | Diagnosis     | ICD-10-CM |
| I69.093 | Ataxia following nontraumatic subarachnoid hemorrhage  | Diagnosis     | ICD-10-CM |
| I69.098 | Other sequelae following nontraumatic subarachnoid hemorrhage  | Diagnosis     | ICD-10-CM |
| I69.1   | Sequelae of nontraumatic intracerebral hemorrhage  | Diagnosis     | ICD-10-CM |
| I69.10  | Unspecified sequelae of nontraumatic intracerebral hemorrhage  | Diagnosis     | ICD-10-CM |
| I69.11  | Cognitive deficits following nontraumatic intracerebral hemorrhage   | Diagnosis     | ICD-10-CM |
| I69.110 | Attention and concentration deficit following nontraumatic intracerebral hemorrhage                          | Diagnosis     | ICD-10-CM |
| I69.111 | Memory deficit following nontraumatic intracerebral hemorrhage   | Diagnosis     | ICD-10-CM |
| I69.112 | Visuospatial deficit and spatial neglect following nontraumatic intracerebral hemorrhage                     | Diagnosis     | ICD-10-CM |
| I69.113 | Psychomotor deficit following nontraumatic intracerebral hemorrhage  | Diagnosis     | ICD-10-CM |
| I69.114 | Frontal lobe and executive function deficit following nontraumatic intracerebral hemorrhage                  | Diagnosis     | ICD-10-CM |
| I69.115 | Cognitive social or emotional deficit following nontraumatic intracerebral hemorrhage                        | Diagnosis     | ICD-10-CM |
| I69.118 | Other symptoms and signs involving cognitive functions following nontraumatic intracerebral hemorrhage       | Diagnosis     | ICD-10-CM |
| I69.119 | Unspecified symptoms and signs involving cognitive functions following nontraumatic intracerebral hemorrhage | Diagnosis     | ICD-10-CM |
| I69.12  | Speech and language deficits following nontraumatic intracerebral hemorrhage                                 | Diagnosis     | ICD-10-CM |
| I69.120 | Aphasia following nontraumatic intracerebral hemorrhage  | Diagnosis     | ICD-10-CM |
| I69.121 | Dysphasia following nontraumatic intracerebral hemorrhage  | Diagnosis     | ICD-10-CM |
| I69.122 | Dysarthria following nontraumatic intracerebral hemorrhage   | Diagnosis     | ICD-10-CM |
| I69.123 | Fluency disorder following nontraumatic intracerebral hemorrhage   | Diagnosis     | ICD-10-CM |
| I69.128 | Other speech and language deficits following nontraumatic intracerebral hemorrhage                           | Diagnosis     | ICD-10-CM |
| I69.13  | Monoplegia of upper limb following nontraumatic intracerebral hemorrhage                                     | Diagnosis     | ICD-10-CM |
| I69.131 | Monoplegia of upper limb following nontraumatic intracerebral hemorrhage affecting right dominant side       | Diagnosis     | ICD-10-CM |
| I69.132 | Monoplegia of upper limb following nontraumatic intracerebral hemorrhage affecting left dominant side        | Diagnosis     | ICD-10-CM |
| I69.133 | Monoplegia of upper limb following nontraumatic intracerebral hemorrhage affecting right non-dominant side   | Diagnosis     | ICD-10-CM |
| I69.134 | Monoplegia of upper limb following nontraumatic intracerebral hemorrhage affecting left non-dominant side    | Diagnosis     | ICD-10-CM |
| I69.139 | Monoplegia of upper limb following nontraumatic intracerebral hemorrhage affecting unspecified side          | Diagnosis     | ICD-10-CM |
| I69.14  | Monoplegia of lower limb following nontraumatic intracerebral hemorrhage                                     | Diagnosis     | ICD-10-CM |
| I69.141 | Monoplegia of lower limb following nontraumatic intracerebral hemorrhage affecting right dominant side       | Diagnosis     | ICD-10-CM |
| I69.142 | Monoplegia of lower limb following nontraumatic intracerebral hemorrhage affecting left dominant side        | Diagnosis     | ICD-10-CM |
| I69.143 | Monoplegia of lower limb following nontraumatic intracerebral hemorrhage affecting right non-dominant side   | Diagnosis     | ICD-10-CM |
| I69.144 | Monoplegia of lower limb following nontraumatic intracerebral hemorrhage affecting left non-dominant side    | Diagnosis     | ICD-10-CM |
| I69.149 | Monoplegia of lower limb following nontraumatic intracerebral hemorrhage affecting unspecified side          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| I69.15  | Hemiplegia and hemiparesis following nontraumatic intracerebral hemorrhage  | Diagnosis     | ICD-10-CM |
| I69.151 | Hemiplegia and hemiparesis following nontraumatic intracerebral hemorrhage affecting right dominant side          | Diagnosis     | ICD-10-CM |
| I69.152 | Hemiplegia and hemiparesis following nontraumatic intracerebral hemorrhage affecting left dominant side           | Diagnosis     | ICD-10-CM |
| I69.153 | Hemiplegia and hemiparesis following nontraumatic intracerebral hemorrhage affecting right non-dominant side      | Diagnosis     | ICD-10-CM |
| I69.154 | Hemiplegia and hemiparesis following nontraumatic intracerebral hemorrhage affecting left non-dominant side       | Diagnosis     | ICD-10-CM |
| I69.159 | Hemiplegia and hemiparesis following nontraumatic intracerebral hemorrhage affecting unspecified side             | Diagnosis     | ICD-10-CM |
| I69.16  | Other paralytic syndrome following nontraumatic intracerebral hemorrhage  | Diagnosis     | ICD-10-CM |
| I69.161 | Other paralytic syndrome following nontraumatic intracerebral hemorrhage affecting right dominant side            | Diagnosis     | ICD-10-CM |
| I69.162 | Other paralytic syndrome following nontraumatic intracerebral hemorrhage affecting left dominant side             | Diagnosis     | ICD-10-CM |
| I69.163 | Other paralytic syndrome following nontraumatic intracerebral hemorrhage affecting right non-dominant side        | Diagnosis     | ICD-10-CM |
| I69.164 | Other paralytic syndrome following nontraumatic intracerebral hemorrhage affecting left non-dominant side         | Diagnosis     | ICD-10-CM |
| I69.165 | Other paralytic syndrome following nontraumatic intracerebral hemorrhage, bilateral                               | Diagnosis     | ICD-10-CM |
| I69.169 | Other paralytic syndrome following nontraumatic intracerebral hemorrhage affecting unspecified side               | Diagnosis     | ICD-10-CM |
| I69.19  | Other sequelae of nontraumatic intracerebral hemorrhage   | Diagnosis     | ICD-10-CM |
| I69.190 | Apraxia following nontraumatic intracerebral hemorrhage   | Diagnosis     | ICD-10-CM |
| I69.191 | Dysphagia following nontraumatic intracerebral hemorrhage   | Diagnosis     | ICD-10-CM |
| I69.192 | Facial weakness following nontraumatic intracerebral hemorrhage   | Diagnosis     | ICD-10-CM |
| I69.193 | Ataxia following nontraumatic intracerebral hemorrhage  | Diagnosis     | ICD-10-CM |
| I69.198 | Other sequelae of nontraumatic intracerebral hemorrhage   | Diagnosis     | ICD-10-CM |
| I69.2   | Sequelae of other nontraumatic intracranial hemorrhage  | Diagnosis     | ICD-10-CM |
| I69.20  | Unspecified sequelae of other nontraumatic intracranial hemorrhage  | Diagnosis     | ICD-10-CM |
| I69.21  | Cognitive deficits following other nontraumatic intracranial hemorrhage   | Diagnosis     | ICD-10-CM |
| I69.210 | Attention and concentration deficit following other nontraumatic intracranial hemorrhage                          | Diagnosis     | ICD-10-CM |
| I69.211 | Memory deficit following other nontraumatic intracranial hemorrhage   | Diagnosis     | ICD-10-CM |
| I69.212 | Visuospatial deficit and spatial neglect following other nontraumatic intracranial hemorrhage                     | Diagnosis     | ICD-10-CM |
| I69.213 | Psychomotor deficit following other nontraumatic intracranial hemorrhage  | Diagnosis     | ICD-10-CM |
| I69.214 | Frontal lobe and executive function deficit following other nontraumatic intracranial hemorrhage                  | Diagnosis     | ICD-10-CM |
| I69.215 | Cognitive social or emotional deficit following other nontraumatic intracranial hemorrhage                        | Diagnosis     | ICD-10-CM |
| I69.218 | Other symptoms and signs involving cognitive functions following other nontraumatic intracranial hemorrhage       | Diagnosis     | ICD-10-CM |
| I69.219 | Unspecified symptoms and signs involving cognitive functions following other nontraumatic intracranial hemorrhage | Diagnosis     | ICD-10-CM |
| I69.22  | Speech and language deficits following other nontraumatic intracranial hemorrhage                                 | Diagnosis     | ICD-10-CM |
| I69.220 | Aphasia following other nontraumatic intracranial hemorrhage  | Diagnosis     | ICD-10-CM |
| I69.221 | Dysphasia following other nontraumatic intracranial hemorrhage  | Diagnosis     | ICD-10-CM |
| I69.222 | Dysarthria following other nontraumatic intracranial hemorrhage   | Diagnosis     | ICD-10-CM |
| I69.223 | Fluency disorder following other nontraumatic intracranial hemorrhage   | Diagnosis     | ICD-10-CM |
| I69.228 | Other speech and language deficits following other nontraumatic intracranial hemorrhage                           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| I69.23  | Monoplegia of upper limb following other nontraumatic intracranial hemorrhage                                     | Diagnosis     | ICD-10-CM |
| I69.231 | Monoplegia of upper limb following other nontraumatic intracranial hemorrhage affecting right dominant side       | Diagnosis     | ICD-10-CM |
| I69.232 | Monoplegia of upper limb following other nontraumatic intracranial hemorrhage affecting left dominant side        | Diagnosis     | ICD-10-CM |
| I69.233 | Monoplegia of upper limb following other nontraumatic intracranial hemorrhage affecting right non-dominant side   | Diagnosis     | ICD-10-CM |
| I69.234 | Monoplegia of upper limb following other nontraumatic intracranial hemorrhage affecting left non-dominant side    | Diagnosis     | ICD-10-CM |
| I69.239 | Monoplegia of upper limb following other nontraumatic intracranial hemorrhage affecting unspecified side          | Diagnosis     | ICD-10-CM |
| I69.24  | Monoplegia of lower limb following other nontraumatic intracranial hemorrhage                                     | Diagnosis     | ICD-10-CM |
| I69.241 | Monoplegia of lower limb following other nontraumatic intracranial hemorrhage affecting right dominant side       | Diagnosis     | ICD-10-CM |
| I69.242 | Monoplegia of lower limb following other nontraumatic intracranial hemorrhage affecting left dominant side        | Diagnosis     | ICD-10-CM |
| I69.243 | Monoplegia of lower limb following other nontraumatic intracranial hemorrhage affecting right non-dominant side   | Diagnosis     | ICD-10-CM |
| I69.244 | Monoplegia of lower limb following other nontraumatic intracranial hemorrhage affecting left non-dominant side    | Diagnosis     | ICD-10-CM |
| I69.249 | Monoplegia of lower limb following other nontraumatic intracranial hemorrhage affecting unspecified side          | Diagnosis     | ICD-10-CM |
| I69.25  | Hemiplegia and hemiparesis following other nontraumatic intracranial hemorrhage                                   | Diagnosis     | ICD-10-CM |
| I69.251 | Hemiplegia and hemiparesis following other nontraumatic intracranial hemorrhage affecting right dominant side     | Diagnosis     | ICD-10-CM |
| I69.252 | Hemiplegia and hemiparesis following other nontraumatic intracranial hemorrhage affecting left dominant side      | Diagnosis     | ICD-10-CM |
| I69.253 | Hemiplegia and hemiparesis following other nontraumatic intracranial hemorrhage affecting right non-dominant side | Diagnosis     | ICD-10-CM |
| I69.254 | Hemiplegia and hemiparesis following other nontraumatic intracranial hemorrhage affecting left non-dominant side  | Diagnosis     | ICD-10-CM |
| I69.259 | Hemiplegia and hemiparesis following other nontraumatic intracranial hemorrhage affecting unspecified side        | Diagnosis     | ICD-10-CM |
| I69.26  | Other paralytic syndrome following other nontraumatic intracranial hemorrhage                                     | Diagnosis     | ICD-10-CM |
| I69.261 | Other paralytic syndrome following other nontraumatic intracranial hemorrhage affecting right dominant side       | Diagnosis     | ICD-10-CM |
| I69.262 | Other paralytic syndrome following other nontraumatic intracranial hemorrhage affecting left dominant side        | Diagnosis     | ICD-10-CM |
| I69.263 | Other paralytic syndrome following other nontraumatic intracranial hemorrhage affecting right non-dominant side   | Diagnosis     | ICD-10-CM |
| I69.264 | Other paralytic syndrome following other nontraumatic intracranial hemorrhage affecting left non-dominant side    | Diagnosis     | ICD-10-CM |
| I69.265 | Other paralytic syndrome following other nontraumatic intracranial hemorrhage, bilateral                          | Diagnosis     | ICD-10-CM |
| I69.269 | Other paralytic syndrome following other nontraumatic intracranial hemorrhage affecting unspecified side          | Diagnosis     | ICD-10-CM |
| I69.29  | Other sequelae of other nontraumatic intracranial hemorrhage  | Diagnosis     | ICD-10-CM |
| I69.290 | Apraxia following other nontraumatic intracranial hemorrhage  | Diagnosis     | ICD-10-CM |
| I69.291 | Dysphagia following other nontraumatic intracranial hemorrhage  | Diagnosis     | ICD-10-CM |
| I69.292 | Facial weakness following other nontraumatic intracranial hemorrhage  | Diagnosis     | ICD-10-CM |
| I69.293 | Ataxia following other nontraumatic intracranial hemorrhage   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| I69.298 | Other sequelae of other nontraumatic intracranial hemorrhage                               | Diagnosis     | ICD-10-CM |
| I69.3   | Sequelae of cerebral infarction  | Diagnosis     | ICD-10-CM |
| I69.30  | Unspecified sequelae of cerebral infarction  | Diagnosis     | ICD-10-CM |
| I69.31  | Cognitive deficits following cerebral infarction   | Diagnosis     | ICD-10-CM |
| I69.310 | Attention and concentration deficit following cerebral infarction                          | Diagnosis     | ICD-10-CM |
| I69.311 | Memory deficit following cerebral infarction   | Diagnosis     | ICD-10-CM |
| I69.312 | Visuospatial deficit and spatial neglect following cerebral infarction                     | Diagnosis     | ICD-10-CM |
| I69.313 | Psychomotor deficit following cerebral infarction  | Diagnosis     | ICD-10-CM |
| I69.314 | Frontal lobe and executive function deficit following cerebral infarction                  | Diagnosis     | ICD-10-CM |
| I69.315 | Cognitive social or emotional deficit following cerebral infarction                        | Diagnosis     | ICD-10-CM |
| I69.318 | Other symptoms and signs involving cognitive functions following cerebral infarction       | Diagnosis     | ICD-10-CM |
| I69.319 | Unspecified symptoms and signs involving cognitive functions following cerebral infarction | Diagnosis     | ICD-10-CM |
| I69.32  | Speech and language deficits following cerebral infarction                                 | Diagnosis     | ICD-10-CM |
| I69.320 | Aphasia following cerebral infarction  | Diagnosis     | ICD-10-CM |
| I69.321 | Dysphasia following cerebral infarction  | Diagnosis     | ICD-10-CM |
| I69.322 | Dysarthria following cerebral infarction   | Diagnosis     | ICD-10-CM |
| I69.323 | Fluency disorder following cerebral infarction   | Diagnosis     | ICD-10-CM |
| I69.328 | Other speech and language deficits following cerebral infarction                           | Diagnosis     | ICD-10-CM |
| I69.33  | Monoplegia of upper limb following cerebral infarction                                     | Diagnosis     | ICD-10-CM |
| I69.331 | Monoplegia of upper limb following cerebral infarction affecting right dominant side       | Diagnosis     | ICD-10-CM |
| I69.332 | Monoplegia of upper limb following cerebral infarction affecting left dominant side        | Diagnosis     | ICD-10-CM |
| I69.333 | Monoplegia of upper limb following cerebral infarction affecting right non-dominant side   | Diagnosis     | ICD-10-CM |
| I69.334 | Monoplegia of upper limb following cerebral infarction affecting left non-dominant side    | Diagnosis     | ICD-10-CM |
| I69.339 | Monoplegia of upper limb following cerebral infarction affecting unspecified side          | Diagnosis     | ICD-10-CM |
| I69.34  | Monoplegia of lower limb following cerebral infarction                                     | Diagnosis     | ICD-10-CM |
| I69.341 | Monoplegia of lower limb following cerebral infarction affecting right dominant side       | Diagnosis     | ICD-10-CM |
| I69.342 | Monoplegia of lower limb following cerebral infarction affecting left dominant side        | Diagnosis     | ICD-10-CM |
| I69.343 | Monoplegia of lower limb following cerebral infarction affecting right non-dominant side   | Diagnosis     | ICD-10-CM |
| I69.344 | Monoplegia of lower limb following cerebral infarction affecting left non-dominant side    | Diagnosis     | ICD-10-CM |
| I69.349 | Monoplegia of lower limb following cerebral infarction affecting unspecified side          | Diagnosis     | ICD-10-CM |
| I69.35  | Hemiplegia and hemiparesis following cerebral infarction                                   | Diagnosis     | ICD-10-CM |
| I69.351 | Hemiplegia and hemiparesis following cerebral infarction affecting right dominant side     | Diagnosis     | ICD-10-CM |
| I69.352 | Hemiplegia and hemiparesis following cerebral infarction affecting left dominant side      | Diagnosis     | ICD-10-CM |
| I69.353 | Hemiplegia and hemiparesis following cerebral infarction affecting right non-dominant side | Diagnosis     | ICD-10-CM |
| I69.354 | Hemiplegia and hemiparesis following cerebral infarction affecting left non-dominant side  | Diagnosis     | ICD-10-CM |
| I69.359 | Hemiplegia and hemiparesis following cerebral infarction affecting unspecified side        | Diagnosis     | ICD-10-CM |
| I69.36  | Other paralytic syndrome following cerebral infarction                                     | Diagnosis     | ICD-10-CM |
| I69.361 | Other paralytic syndrome following cerebral infarction affecting right dominant side       | Diagnosis     | ICD-10-CM |
| I69.362 | Other paralytic syndrome following cerebral infarction affecting left dominant side        | Diagnosis     | ICD-10-CM |
| I69.363 | Other paralytic syndrome following cerebral infarction affecting right non-dominant side   | Diagnosis     | ICD-10-CM |
| I69.364 | Other paralytic syndrome following cerebral infarction affecting left non-dominant side    | Diagnosis     | ICD-10-CM |
| I69.365 | Other paralytic syndrome following cerebral infarction, bilateral                          | Diagnosis     | ICD-10-CM |
| I69.369 | Other paralytic syndrome following cerebral infarction affecting unspecified side          | Diagnosis     | ICD-10-CM |
| I69.39  | Other sequelae of cerebral infarction  | Diagnosis     | ICD-10-CM |
| I69.390 | Apraxia following cerebral infarction  | Diagnosis     | ICD-10-CM |
| I69.391 | Dysphagia following cerebral infarction  | Diagnosis     | ICD-10-CM |
| I69.392 | Facial weakness following cerebral infarction  | Diagnosis     | ICD-10-CM |
| I69.393 | Ataxia following cerebral infarction   | Diagnosis     | ICD-10-CM |
| I69.398 | Other sequelae of cerebral infarction  | Diagnosis     | ICD-10-CM |
| I69.8   | Sequelae of other cerebrovascular diseases   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| I69.80  | Unspecified sequelae of other cerebrovascular disease  | Diagnosis     | ICD-10-CM |
| I69.81  | Cognitive deficits following other cerebrovascular disease   | Diagnosis     | ICD-10-CM |
| I69.810 | Attention and concentration deficit following other cerebrovascular disease                          | Diagnosis     | ICD-10-CM |
| I69.811 | Memory deficit following other cerebrovascular disease   | Diagnosis     | ICD-10-CM |
| I69.812 | Visuospatial deficit and spatial neglect following other cerebrovascular disease                     | Diagnosis     | ICD-10-CM |
| I69.813 | Psychomotor deficit following other cerebrovascular disease  | Diagnosis     | ICD-10-CM |
| I69.814 | Frontal lobe and executive function deficit following other cerebrovascular disease                  | Diagnosis     | ICD-10-CM |
| I69.815 | Cognitive social or emotional deficit following other cerebrovascular disease                        | Diagnosis     | ICD-10-CM |
| I69.818 | Other symptoms and signs involving cognitive functions following other cerebrovascular disease       | Diagnosis     | ICD-10-CM |
| I69.819 | Unspecified symptoms and signs involving cognitive functions following other cerebrovascular disease | Diagnosis     | ICD-10-CM |
| I69.82  | Speech and language deficits following other cerebrovascular disease                                 | Diagnosis     | ICD-10-CM |
| I69.820 | Aphasia following other cerebrovascular disease  | Diagnosis     | ICD-10-CM |
| I69.821 | Dysphasia following other cerebrovascular disease  | Diagnosis     | ICD-10-CM |
| I69.822 | Dysarthria following other cerebrovascular disease   | Diagnosis     | ICD-10-CM |
| I69.823 | Fluency disorder following other cerebrovascular disease   | Diagnosis     | ICD-10-CM |
| I69.828 | Other speech and language deficits following other cerebrovascular disease                           | Diagnosis     | ICD-10-CM |
| I69.83  | Monoplegia of upper limb following other cerebrovascular disease                                     | Diagnosis     | ICD-10-CM |
| I69.831 | Monoplegia of upper limb following other cerebrovascular disease affecting right dominant side       | Diagnosis     | ICD-10-CM |
| I69.832 | Monoplegia of upper limb following other cerebrovascular disease affecting left dominant side        | Diagnosis     | ICD-10-CM |
| I69.833 | Monoplegia of upper limb following other cerebrovascular disease affecting right non-dominant side   | Diagnosis     | ICD-10-CM |
| I69.834 | Monoplegia of upper limb following other cerebrovascular disease affecting left non-dominant side    | Diagnosis     | ICD-10-CM |
| I69.839 | Monoplegia of upper limb following other cerebrovascular disease affecting unspecified side          | Diagnosis     | ICD-10-CM |
| I69.84  | Monoplegia of lower limb following other cerebrovascular disease                                     | Diagnosis     | ICD-10-CM |
| I69.841 | Monoplegia of lower limb following other cerebrovascular disease affecting right dominant side       | Diagnosis     | ICD-10-CM |
| I69.842 | Monoplegia of lower limb following other cerebrovascular disease affecting left dominant side        | Diagnosis     | ICD-10-CM |
| I69.843 | Monoplegia of lower limb following other cerebrovascular disease affecting right non-dominant side   | Diagnosis     | ICD-10-CM |
| I69.844 | Monoplegia of lower limb following other cerebrovascular disease affecting left non-dominant side    | Diagnosis     | ICD-10-CM |
| I69.849 | Monoplegia of lower limb following other cerebrovascular disease affecting unspecified side          | Diagnosis     | ICD-10-CM |
| I69.85  | Hemiplegia and hemiparesis following other cerebrovascular disease                                   | Diagnosis     | ICD-10-CM |
| I69.851 | Hemiplegia and hemiparesis following other cerebrovascular disease affecting right dominant side     | Diagnosis     | ICD-10-CM |
| I69.852 | Hemiplegia and hemiparesis following other cerebrovascular disease affecting left dominant side      | Diagnosis     | ICD-10-CM |
| I69.853 | Hemiplegia and hemiparesis following other cerebrovascular disease affecting right non-dominant side | Diagnosis     | ICD-10-CM |
| I69.854 | Hemiplegia and hemiparesis following other cerebrovascular disease affecting left non-dominant side  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| I69.859 | Hemiplegia and hemiparesis following other cerebrovascular disease affecting unspecified side              | Diagnosis     | ICD-10-CM |
| I69.86  | Other paralytic syndrome following other cerebrovascular disease   | Diagnosis     | ICD-10-CM |
| I69.861 | Other paralytic syndrome following other cerebrovascular disease affecting right dominant side             | Diagnosis     | ICD-10-CM |
| I69.862 | Other paralytic syndrome following other cerebrovascular disease affecting left dominant side              | Diagnosis     | ICD-10-CM |
| I69.863 | Other paralytic syndrome following other cerebrovascular disease affecting right non-dominant side         | Diagnosis     | ICD-10-CM |
| I69.864 | Other paralytic syndrome following other cerebrovascular disease affecting left non-dominant side          | Diagnosis     | ICD-10-CM |
| I69.865 | Other paralytic syndrome following other cerebrovascular disease, bilateral                                | Diagnosis     | ICD-10-CM |
| I69.869 | Other paralytic syndrome following other cerebrovascular disease affecting unspecified side                | Diagnosis     | ICD-10-CM |
| I69.89  | Other sequelae of other cerebrovascular disease  | Diagnosis     | ICD-10-CM |
| I69.890 | Apraxia following other cerebrovascular disease  | Diagnosis     | ICD-10-CM |
| I69.891 | Dysphagia following other cerebrovascular disease  | Diagnosis     | ICD-10-CM |
| I69.892 | Facial weakness following other cerebrovascular disease  | Diagnosis     | ICD-10-CM |
| I69.893 | Ataxia following other cerebrovascular disease   | Diagnosis     | ICD-10-CM |
| I69.898 | Other sequelae of other cerebrovascular disease  | Diagnosis     | ICD-10-CM |
| I69.9   | Sequelae of unspecified cerebrovascular diseases   | Diagnosis     | ICD-10-CM |
| I69.90  | Unspecified sequelae of unspecified cerebrovascular disease  | Diagnosis     | ICD-10-CM |
| I69.91  | Cognitive deficits following unspecified cerebrovascular disease   | Diagnosis     | ICD-10-CM |
| I69.910 | Attention and concentration deficit following unspecified cerebrovascular disease                          | Diagnosis     | ICD-10-CM |
| I69.911 | Memory deficit following unspecified cerebrovascular disease   | Diagnosis     | ICD-10-CM |
| I69.912 | Visuospatial deficit and spatial neglect following unspecified cerebrovascular disease                     | Diagnosis     | ICD-10-CM |
| I69.913 | Psychomotor deficit following unspecified cerebrovascular disease  | Diagnosis     | ICD-10-CM |
| I69.914 | Frontal lobe and executive function deficit following unspecified cerebrovascular disease                  | Diagnosis     | ICD-10-CM |
| I69.915 | Cognitive social or emotional deficit following unspecified cerebrovascular disease                        | Diagnosis     | ICD-10-CM |
| I69.918 | Other symptoms and signs involving cognitive functions following unspecified cerebrovascular disease       | Diagnosis     | ICD-10-CM |
| I69.919 | Unspecified symptoms and signs involving cognitive functions following unspecified cerebrovascular disease | Diagnosis     | ICD-10-CM |
| I69.92  | Speech and language deficits following unspecified cerebrovascular disease                                 | Diagnosis     | ICD-10-CM |
| I69.920 | Aphasia following unspecified cerebrovascular disease  | Diagnosis     | ICD-10-CM |
| I69.921 | Dysphasia following unspecified cerebrovascular disease  | Diagnosis     | ICD-10-CM |
| I69.922 | Dysarthria following unspecified cerebrovascular disease   | Diagnosis     | ICD-10-CM |
| I69.923 | Fluency disorder following unspecified cerebrovascular disease   | Diagnosis     | ICD-10-CM |
| I69.928 | Other speech and language deficits following unspecified cerebrovascular disease                           | Diagnosis     | ICD-10-CM |
| I69.93  | Monoplegia of upper limb following unspecified cerebrovascular disease                                     | Diagnosis     | ICD-10-CM |
| I69.931 | Monoplegia of upper limb following unspecified cerebrovascular disease affecting right dominant side       | Diagnosis     | ICD-10-CM |
| I69.932 | Monoplegia of upper limb following unspecified cerebrovascular disease affecting left dominant side        | Diagnosis     | ICD-10-CM |
| I69.933 | Monoplegia of upper limb following unspecified cerebrovascular disease affecting right non-dominant side   | Diagnosis     | ICD-10-CM |
| I69.934 | Monoplegia of upper limb following unspecified cerebrovascular disease affecting left non-dominant side    | Diagnosis     | ICD-10-CM |
| I69.939 | Monoplegia of upper limb following unspecified cerebrovascular disease affecting unspecified side          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| I69.94  | Monoplegia of lower limb following unspecified cerebrovascular disease                                     | Diagnosis     | ICD-10-CM |
| I69.941 | Monoplegia of lower limb following unspecified cerebrovascular disease affecting right dominant side       | Diagnosis     | ICD-10-CM |
| I69.942 | Monoplegia of lower limb following unspecified cerebrovascular disease affecting left dominant side        | Diagnosis     | ICD-10-CM |
| I69.943 | Monoplegia of lower limb following unspecified cerebrovascular disease affecting right non-dominant side   | Diagnosis     | ICD-10-CM |
| I69.944 | Monoplegia of lower limb following unspecified cerebrovascular disease affecting left non-dominant side    | Diagnosis     | ICD-10-CM |
| I69.949 | Monoplegia of lower limb following unspecified cerebrovascular disease affecting unspecified side          | Diagnosis     | ICD-10-CM |
| I69.95  | Hemiplegia and hemiparesis following unspecified cerebrovascular disease                                   | Diagnosis     | ICD-10-CM |
| I69.951 | Hemiplegia and hemiparesis following unspecified cerebrovascular disease affecting right dominant side     | Diagnosis     | ICD-10-CM |
| I69.952 | Hemiplegia and hemiparesis following unspecified cerebrovascular disease affecting left dominant side      | Diagnosis     | ICD-10-CM |
| I69.953 | Hemiplegia and hemiparesis following unspecified cerebrovascular disease affecting right non-dominant side | Diagnosis     | ICD-10-CM |
| I69.954 | Hemiplegia and hemiparesis following unspecified cerebrovascular disease affecting left non-dominant side  | Diagnosis     | ICD-10-CM |
| I69.959 | Hemiplegia and hemiparesis following unspecified cerebrovascular disease affecting unspecified side        | Diagnosis     | ICD-10-CM |
| I69.96  | Other paralytic syndrome following unspecified cerebrovascular disease                                     | Diagnosis     | ICD-10-CM |
| I69.961 | Other paralytic syndrome following unspecified cerebrovascular disease affecting right dominant side       | Diagnosis     | ICD-10-CM |
| I69.962 | Other paralytic syndrome following unspecified cerebrovascular disease affecting left dominant side        | Diagnosis     | ICD-10-CM |
| I69.963 | Other paralytic syndrome following unspecified cerebrovascular disease affecting right non-dominant side   | Diagnosis     | ICD-10-CM |
| I69.964 | Other paralytic syndrome following unspecified cerebrovascular disease affecting left non-dominant side    | Diagnosis     | ICD-10-CM |
| I69.965 | Other paralytic syndrome following unspecified cerebrovascular disease, bilateral                          | Diagnosis     | ICD-10-CM |
| I69.969 | Other paralytic syndrome following unspecified cerebrovascular disease affecting unspecified side          | Diagnosis     | ICD-10-CM |
| I69.99  | Other sequelae of unspecified cerebrovascular disease  | Diagnosis     | ICD-10-CM |
| I69.990 | Apraxia following unspecified cerebrovascular disease  | Diagnosis     | ICD-10-CM |
| I69.991 | Dysphagia following unspecified cerebrovascular disease  | Diagnosis     | ICD-10-CM |
| I69.992 | Facial weakness following unspecified cerebrovascular disease  | Diagnosis     | ICD-10-CM |
| I69.993 | Ataxia following unspecified cerebrovascular disease   | Diagnosis     | ICD-10-CM |
| I69.998 | Other sequelae following unspecified cerebrovascular disease   | Diagnosis     | ICD-10-CM |
| I70.0   | Atherosclerosis of aorta   | Diagnosis     | ICD-10-CM |
| I70.1   | Atherosclerosis of renal artery  | Diagnosis     | ICD-10-CM |
| I70.2   | Atherosclerosis of native arteries of the extremities  | Diagnosis     | ICD-10-CM |
| I70.20  | Unspecified atherosclerosis of native arteries of extremities  | Diagnosis     | ICD-10-CM |
| I70.201 | Unspecified atherosclerosis of native arteries of extremities, right leg                                   | Diagnosis     | ICD-10-CM |
| I70.202 | Unspecified atherosclerosis of native arteries of extremities, left leg                                    | Diagnosis     | ICD-10-CM |
| I70.203 | Unspecified atherosclerosis of native arteries of extremities, bilateral legs                              | Diagnosis     | ICD-10-CM |
| I70.208 | Unspecified atherosclerosis of native arteries of extremities, other extremity                             | Diagnosis     | ICD-10-CM |
| I70.209 | Unspecified atherosclerosis of native arteries of extremities, unspecified extremity                       | Diagnosis     | ICD-10-CM |
| I70.21  | Atherosclerosis of native arteries of extremities with intermittent claudication                           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| I70.211 | Atherosclerosis of native arteries of extremities with intermittent claudication, right leg             | Diagnosis     | ICD-10-CM |
| I70.212 | Atherosclerosis of native arteries of extremities with intermittent claudication, left leg              | Diagnosis     | ICD-10-CM |
| I70.213 | Atherosclerosis of native arteries of extremities with intermittent claudication, bilateral legs        | Diagnosis     | ICD-10-CM |
| I70.218 | Atherosclerosis of native arteries of extremities with intermittent claudication, other extremity       | Diagnosis     | ICD-10-CM |
| I70.219 | Atherosclerosis of native arteries of extremities with intermittent claudication, unspecified extremity | Diagnosis     | ICD-10-CM |
| I70.22  | Atherosclerosis of native arteries of extremities with rest pain  | Diagnosis     | ICD-10-CM |
| I70.221 | Atherosclerosis of native arteries of extremities with rest pain, right leg                             | Diagnosis     | ICD-10-CM |
| I70.222 | Atherosclerosis of native arteries of extremities with rest pain, left leg                              | Diagnosis     | ICD-10-CM |
| I70.223 | Atherosclerosis of native arteries of extremities with rest pain, bilateral legs                        | Diagnosis     | ICD-10-CM |
| I70.228 | Atherosclerosis of native arteries of extremities with rest pain, other extremity                       | Diagnosis     | ICD-10-CM |
| I70.229 | Atherosclerosis of native arteries of extremities with rest pain, unspecified extremity                 | Diagnosis     | ICD-10-CM |
| I70.23  | Atherosclerosis of native arteries of right leg with ulceration   | Diagnosis     | ICD-10-CM |
| I70.231 | Atherosclerosis of native arteries of right leg with ulceration of thigh                                | Diagnosis     | ICD-10-CM |
| I70.232 | Atherosclerosis of native arteries of right leg with ulceration of calf                                 | Diagnosis     | ICD-10-CM |
| I70.233 | Atherosclerosis of native arteries of right leg with ulceration of ankle                                | Diagnosis     | ICD-10-CM |
| I70.234 | Atherosclerosis of native arteries of right leg with ulceration of heel and midfoot                     | Diagnosis     | ICD-10-CM |
| I70.235 | Atherosclerosis of native arteries of right leg with ulceration of other part of foot                   | Diagnosis     | ICD-10-CM |
| I70.238 | Atherosclerosis of native arteries of right leg with ulceration of other part of lower leg              | Diagnosis     | ICD-10-CM |
| I70.239 | Atherosclerosis of native arteries of right leg with ulceration of unspecified site                     | Diagnosis     | ICD-10-CM |
| I70.24  | Atherosclerosis of native arteries of left leg with ulceration  | Diagnosis     | ICD-10-CM |
| I70.241 | Atherosclerosis of native arteries of left leg with ulceration of thigh                                 | Diagnosis     | ICD-10-CM |
| I70.242 | Atherosclerosis of native arteries of left leg with ulceration of calf                                  | Diagnosis     | ICD-10-CM |
| I70.243 | Atherosclerosis of native arteries of left leg with ulceration of ankle                                 | Diagnosis     | ICD-10-CM |
| I70.244 | Atherosclerosis of native arteries of left leg with ulceration of heel and midfoot                      | Diagnosis     | ICD-10-CM |
| I70.245 | Atherosclerosis of native arteries of left leg with ulceration of other part of foot                    | Diagnosis     | ICD-10-CM |
| I70.248 | Atherosclerosis of native arteries of left leg with ulceration of other part of lower leg               | Diagnosis     | ICD-10-CM |
| I70.249 | Atherosclerosis of native arteries of left leg with ulceration of unspecified site                      | Diagnosis     | ICD-10-CM |
| I70.25  | Atherosclerosis of native arteries of other extremities with ulceration                                 | Diagnosis     | ICD-10-CM |
| I70.26  | Atherosclerosis of native arteries of extremities with gangrene   | Diagnosis     | ICD-10-CM |
| I70.261 | Atherosclerosis of native arteries of extremities with gangrene, right leg                              | Diagnosis     | ICD-10-CM |
| I70.262 | Atherosclerosis of native arteries of extremities with gangrene, left leg                               | Diagnosis     | ICD-10-CM |
| I70.263 | Atherosclerosis of native arteries of extremities with gangrene, bilateral legs                         | Diagnosis     | ICD-10-CM |
| I70.268 | Atherosclerosis of native arteries of extremities with gangrene, other extremity                        | Diagnosis     | ICD-10-CM |
| I70.269 | Atherosclerosis of native arteries of extremities with gangrene, unspecified extremity                  | Diagnosis     | ICD-10-CM |
| I70.29  | Other atherosclerosis of native arteries of extremities   | Diagnosis     | ICD-10-CM |
| I70.291 | Other atherosclerosis of native arteries of extremities, right leg                                      | Diagnosis     | ICD-10-CM |
| I70.292 | Other atherosclerosis of native arteries of extremities, left leg                                       | Diagnosis     | ICD-10-CM |
| I70.293 | Other atherosclerosis of native arteries of extremities, bilateral legs                                 | Diagnosis     | ICD-10-CM |
| I70.298 | Other atherosclerosis of native arteries of extremities, other extremity                                | Diagnosis     | ICD-10-CM |
| I70.299 | Other atherosclerosis of native arteries of extremities, unspecified extremity                          | Diagnosis     | ICD-10-CM |
| I70.3   | Atherosclerosis of unspecified type of bypass graft(s) of the extremities                               | Diagnosis     | ICD-10-CM |
| I70.30  | Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities                   | Diagnosis     | ICD-10-CM |
| I70.301 | Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, right leg        | Diagnosis     | ICD-10-CM |
| I70.302 | Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, left leg         | Diagnosis     | ICD-10-CM |
| I70.303 | Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, bilateral legs   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| I70.308 | Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, other extremity                          | Diagnosis     | ICD-10-CM |
| I70.309 | Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, unspecified extremity                    | Diagnosis     | ICD-10-CM |
| I70.31  | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication                        | Diagnosis     | ICD-10-CM |
| I70.311 | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, right leg             | Diagnosis     | ICD-10-CM |
| I70.312 | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, left leg              | Diagnosis     | ICD-10-CM |
| I70.313 | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, bilateral legs        | Diagnosis     | ICD-10-CM |
| I70.318 | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, other extremity       | Diagnosis     | ICD-10-CM |
| I70.319 | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, unspecified extremity | Diagnosis     | ICD-10-CM |
| I70.32  | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain  | Diagnosis     | ICD-10-CM |
| I70.321 | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, right leg                             | Diagnosis     | ICD-10-CM |
| I70.322 | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, left leg                              | Diagnosis     | ICD-10-CM |
| I70.323 | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, bilateral legs                        | Diagnosis     | ICD-10-CM |
| I70.328 | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, other extremity                       | Diagnosis     | ICD-10-CM |
| I70.329 | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, unspecified extremity                 | Diagnosis     | ICD-10-CM |
| I70.33  | Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration   | Diagnosis     | ICD-10-CM |
| I70.331 | Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of thigh                                | Diagnosis     | ICD-10-CM |
| I70.332 | Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of calf                                 | Diagnosis     | ICD-10-CM |
| I70.333 | Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of ankle                                | Diagnosis     | ICD-10-CM |
| I70.334 | Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of heel and midfoot                     | Diagnosis     | ICD-10-CM |
| I70.335 | Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of other part of foot                   | Diagnosis     | ICD-10-CM |
| I70.338 | Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of other part of lower leg              | Diagnosis     | ICD-10-CM |
| I70.339 | Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of unspecified site                     | Diagnosis     | ICD-10-CM |
| I70.34  | Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration  | Diagnosis     | ICD-10-CM |
| I70.341 | Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of thigh                                 | Diagnosis     | ICD-10-CM |
| I70.342 | Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of calf                                  | Diagnosis     | ICD-10-CM |
| I70.343 | Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of ankle                                 | Diagnosis     | ICD-10-CM |
| I70.344 | Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of heel and midfoot                      | Diagnosis     | ICD-10-CM |
| I70.345 | Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of other part of foot                    | Diagnosis     | ICD-10-CM |
| I70.348 | Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of other part of lower leg               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| I70.349 | Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of unspecified site                  | Diagnosis     | ICD-10-CM |
| I70.35  | Atherosclerosis of unspecified type of bypass graft(s) of other extremity with ulceration                                   | Diagnosis     | ICD-10-CM |
| I70.36  | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene                                     | Diagnosis     | ICD-10-CM |
| I70.361 | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, right leg                          | Diagnosis     | ICD-10-CM |
| I70.362 | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, left leg                           | Diagnosis     | ICD-10-CM |
| I70.363 | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, bilateral legs                     | Diagnosis     | ICD-10-CM |
| I70.368 | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, other extremity                    | Diagnosis     | ICD-10-CM |
| I70.369 | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, unspecified extremity              | Diagnosis     | ICD-10-CM |
| I70.39  | Other atherosclerosis of unspecified type of bypass graft(s) of the extremities   | Diagnosis     | ICD-10-CM |
| I70.391 | Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, right leg                                  | Diagnosis     | ICD-10-CM |
| I70.392 | Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, left leg                                   | Diagnosis     | ICD-10-CM |
| I70.393 | Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, bilateral legs                             | Diagnosis     | ICD-10-CM |
| I70.398 | Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, other extremity                            | Diagnosis     | ICD-10-CM |
| I70.399 | Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, unspecified extremity                      | Diagnosis     | ICD-10-CM |
| I70.4   | Atherosclerosis of autologous vein bypass graft(s) of the extremities   | Diagnosis     | ICD-10-CM |
| I70.40  | Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities   | Diagnosis     | ICD-10-CM |
| I70.401 | Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, right leg                                | Diagnosis     | ICD-10-CM |
| I70.402 | Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, left leg                                 | Diagnosis     | ICD-10-CM |
| I70.403 | Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, bilateral legs                           | Diagnosis     | ICD-10-CM |
| I70.408 | Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, other extremity                          | Diagnosis     | ICD-10-CM |
| I70.409 | Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, unspecified extremity                    | Diagnosis     | ICD-10-CM |
| I70.41  | Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication                        | Diagnosis     | ICD-10-CM |
| I70.411 | Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, right leg             | Diagnosis     | ICD-10-CM |
| I70.412 | Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, left leg              | Diagnosis     | ICD-10-CM |
| I70.413 | Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, bilateral legs        | Diagnosis     | ICD-10-CM |
| I70.418 | Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, other extremity       | Diagnosis     | ICD-10-CM |
| I70.419 | Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, unspecified extremity | Diagnosis     | ICD-10-CM |
| I70.42  | Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain  | Diagnosis     | ICD-10-CM |
| I70.421 | Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, right leg                             | Diagnosis     | ICD-10-CM |
| I70.422 | Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, left leg                              | Diagnosis     | ICD-10-CM |
| I70.423 | Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, bilateral legs                        | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| I70.428 | Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, other extremity          | Diagnosis     | ICD-10-CM |
| I70.429 | Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, unspecified extremity    | Diagnosis     | ICD-10-CM |
| I70.43  | Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration                            | Diagnosis     | ICD-10-CM |
| I70.431 | Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of thigh                   | Diagnosis     | ICD-10-CM |
| I70.432 | Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of calf                    | Diagnosis     | ICD-10-CM |
| I70.433 | Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of ankle                   | Diagnosis     | ICD-10-CM |
| I70.434 | Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of heel and midfoot        | Diagnosis     | ICD-10-CM |
| I70.435 | Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of other part of foot      | Diagnosis     | ICD-10-CM |
| I70.438 | Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of other part of lower leg | Diagnosis     | ICD-10-CM |
| I70.439 | Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of unspecified site        | Diagnosis     | ICD-10-CM |
| I70.44  | Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration                             | Diagnosis     | ICD-10-CM |
| I70.441 | Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of thigh                    | Diagnosis     | ICD-10-CM |
| I70.442 | Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of calf                     | Diagnosis     | ICD-10-CM |
| I70.443 | Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of ankle                    | Diagnosis     | ICD-10-CM |
| I70.444 | Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of heel and midfoot         | Diagnosis     | ICD-10-CM |
| I70.445 | Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of other part of foot       | Diagnosis     | ICD-10-CM |
| I70.448 | Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of other part of lower leg  | Diagnosis     | ICD-10-CM |
| I70.449 | Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of unspecified site         | Diagnosis     | ICD-10-CM |
| I70.45  | Atherosclerosis of autologous vein bypass graft(s) of other extremity with ulceration                          | Diagnosis     | ICD-10-CM |
| I70.46  | Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene                            | Diagnosis     | ICD-10-CM |
| I70.461 | Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, right leg                 | Diagnosis     | ICD-10-CM |
| I70.462 | Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, left leg                  | Diagnosis     | ICD-10-CM |
| I70.463 | Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, bilateral legs            | Diagnosis     | ICD-10-CM |
| I70.468 | Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, other extremity           | Diagnosis     | ICD-10-CM |
| I70.469 | Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, unspecified extremity     | Diagnosis     | ICD-10-CM |
| I70.49  | Other atherosclerosis of autologous vein bypass graft(s) of the extremities                                    | Diagnosis     | ICD-10-CM |
| I70.491 | Other atherosclerosis of autologous vein bypass graft(s) of the extremities, right leg                         | Diagnosis     | ICD-10-CM |
| I70.492 | Other atherosclerosis of autologous vein bypass graft(s) of the extremities, left leg                          | Diagnosis     | ICD-10-CM |
| I70.493 | Other atherosclerosis of autologous vein bypass graft(s) of the extremities, bilateral legs                    | Diagnosis     | ICD-10-CM |
| I70.498 | Other atherosclerosis of autologous vein bypass graft(s) of the extremities, other extremity                   | Diagnosis     | ICD-10-CM |
| I70.499 | Other atherosclerosis of autologous vein bypass graft(s) of the extremities, unspecified extremity             | Diagnosis     | ICD-10-CM |
| I70.5   | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities                                 | Diagnosis     | ICD-10-CM |
| I70.50  | Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities                     | Diagnosis     | ICD-10-CM |
| I70.501 | Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, right leg          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| I70.502 | Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, left leg                                 | Diagnosis     | ICD-10-CM |
| I70.503 | Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, bilateral legs                           | Diagnosis     | ICD-10-CM |
| I70.508 | Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, other extremity                          | Diagnosis     | ICD-10-CM |
| I70.509 | Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, unspecified extremity                    | Diagnosis     | ICD-10-CM |
| I70.51  | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities intermittent claudication                             | Diagnosis     | ICD-10-CM |
| I70.511 | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, right leg             | Diagnosis     | ICD-10-CM |
| I70.512 | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, left leg              | Diagnosis     | ICD-10-CM |
| I70.513 | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, bilateral legs        | Diagnosis     | ICD-10-CM |
| I70.518 | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, other extremity       | Diagnosis     | ICD-10-CM |
| I70.519 | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, unspecified extremity | Diagnosis     | ICD-10-CM |
| I70.52  | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain  | Diagnosis     | ICD-10-CM |
| I70.521 | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, right leg                             | Diagnosis     | ICD-10-CM |
| I70.522 | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, left leg                              | Diagnosis     | ICD-10-CM |
| I70.523 | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, bilateral legs                        | Diagnosis     | ICD-10-CM |
| I70.528 | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, other extremity                       | Diagnosis     | ICD-10-CM |
| I70.529 | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, unspecified extremity                 | Diagnosis     | ICD-10-CM |
| I70.53  | Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration   | Diagnosis     | ICD-10-CM |
| I70.531 | Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of thigh                                | Diagnosis     | ICD-10-CM |
| I70.532 | Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of calf                                 | Diagnosis     | ICD-10-CM |
| I70.533 | Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of ankle                                | Diagnosis     | ICD-10-CM |
| I70.534 | Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of heel and midfoot                     | Diagnosis     | ICD-10-CM |
| I70.535 | Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of other part of foot                   | Diagnosis     | ICD-10-CM |
| I70.538 | Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of other part of lower leg              | Diagnosis     | ICD-10-CM |
| I70.539 | Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of unspecified site                     | Diagnosis     | ICD-10-CM |
| I70.54  | Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration  | Diagnosis     | ICD-10-CM |
| I70.541 | Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of thigh                                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| I70.542 | Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of calf                    | Diagnosis     | ICD-10-CM |
| I70.543 | Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of ankle                   | Diagnosis     | ICD-10-CM |
| I70.544 | Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of heel and midfoot        | Diagnosis     | ICD-10-CM |
| I70.545 | Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of other part of foot      | Diagnosis     | ICD-10-CM |
| I70.548 | Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of other part of lower leg | Diagnosis     | ICD-10-CM |
| I70.549 | Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of unspecified site        | Diagnosis     | ICD-10-CM |
| I70.55  | Atherosclerosis of nonautologous biological bypass graft(s) of other extremity with ulceration                         | Diagnosis     | ICD-10-CM |
| I70.56  | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene                           | Diagnosis     | ICD-10-CM |
| I70.561 | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, right leg                | Diagnosis     | ICD-10-CM |
| I70.562 | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, left leg                 | Diagnosis     | ICD-10-CM |
| I70.563 | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, bilateral legs           | Diagnosis     | ICD-10-CM |
| I70.568 | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, other extremity          | Diagnosis     | ICD-10-CM |
| I70.569 | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, unspecified extremity    | Diagnosis     | ICD-10-CM |
| I70.59  | Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities                                   | Diagnosis     | ICD-10-CM |
| I70.591 | Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, right leg                        | Diagnosis     | ICD-10-CM |
| I70.592 | Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, left leg                         | Diagnosis     | ICD-10-CM |
| I70.593 | Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, bilateral legs                   | Diagnosis     | ICD-10-CM |
| I70.598 | Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, other extremity                  | Diagnosis     | ICD-10-CM |
| I70.599 | Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, unspecified extremity            | Diagnosis     | ICD-10-CM |
| I70.6   | Atherosclerosis of nonbiological bypass graft(s) of the extremities  | Diagnosis     | ICD-10-CM |
| I70.60  | Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities  | Diagnosis     | ICD-10-CM |
| I70.601 | Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, right leg                             | Diagnosis     | ICD-10-CM |
| I70.602 | Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, left leg                              | Diagnosis     | ICD-10-CM |
| I70.603 | Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, bilateral legs                        | Diagnosis     | ICD-10-CM |
| I70.608 | Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, other extremity                       | Diagnosis     | ICD-10-CM |
| I70.609 | Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, unspecified extremity                 | Diagnosis     | ICD-10-CM |
| I70.61  | Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication                     | Diagnosis     | ICD-10-CM |
| I70.611 | Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, right leg          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| I70.612 | Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, left leg              | Diagnosis     | ICD-10-CM |
| I70.613 | Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, bilateral legs        | Diagnosis     | ICD-10-CM |
| I70.618 | Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, other extremity       | Diagnosis     | ICD-10-CM |
| I70.619 | Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, unspecified extremity | Diagnosis     | ICD-10-CM |
| I70.62  | Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain  | Diagnosis     | ICD-10-CM |
| I70.621 | Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, right leg                             | Diagnosis     | ICD-10-CM |
| I70.622 | Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, left leg                              | Diagnosis     | ICD-10-CM |
| I70.623 | Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, bilateral legs                        | Diagnosis     | ICD-10-CM |
| I70.628 | Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, other extremity                       | Diagnosis     | ICD-10-CM |
| I70.629 | Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, unspecified extremity                 | Diagnosis     | ICD-10-CM |
| I70.63  | Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration   | Diagnosis     | ICD-10-CM |
| I70.631 | Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of thigh                                | Diagnosis     | ICD-10-CM |
| I70.632 | Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of calf                                 | Diagnosis     | ICD-10-CM |
| I70.633 | Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of ankle                                | Diagnosis     | ICD-10-CM |
| I70.634 | Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of heel and midfoot                     | Diagnosis     | ICD-10-CM |
| I70.635 | Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of other part of foot                   | Diagnosis     | ICD-10-CM |
| I70.638 | Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of other part of lower leg              | Diagnosis     | ICD-10-CM |
| I70.639 | Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of unspecified site                     | Diagnosis     | ICD-10-CM |
| I70.64  | Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration  | Diagnosis     | ICD-10-CM |
| I70.641 | Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of thigh                                 | Diagnosis     | ICD-10-CM |
| I70.642 | Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of calf                                  | Diagnosis     | ICD-10-CM |
| I70.643 | Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of ankle                                 | Diagnosis     | ICD-10-CM |
| I70.644 | Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of heel and midfoot                      | Diagnosis     | ICD-10-CM |
| I70.645 | Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of other part of foot                    | Diagnosis     | ICD-10-CM |
| I70.648 | Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of other part of lower leg               | Diagnosis     | ICD-10-CM |
| I70.649 | Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of unspecified site                      | Diagnosis     | ICD-10-CM |
| I70.65  | Atherosclerosis of nonbiological bypass graft(s) of other extremity with ulceration                                       | Diagnosis     | ICD-10-CM |
| I70.66  | Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene   | Diagnosis     | ICD-10-CM |
| I70.661 | Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, right leg                              | Diagnosis     | ICD-10-CM |
| I70.662 | Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, left leg                               | Diagnosis     | ICD-10-CM |
| I70.663 | Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, bilateral legs                         | Diagnosis     | ICD-10-CM |
| I70.668 | Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, other extremity                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| I70.669 | Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, unspecified extremity                  | Diagnosis     | ICD-10-CM |
| I70.69  | Other atherosclerosis of nonbiological bypass graft(s) of the extremities   | Diagnosis     | ICD-10-CM |
| I70.691 | Other atherosclerosis of nonbiological bypass graft(s) of the extremities, right leg                                      | Diagnosis     | ICD-10-CM |
| I70.692 | Other atherosclerosis of nonbiological bypass graft(s) of the extremities, left leg                                       | Diagnosis     | ICD-10-CM |
| I70.693 | Other atherosclerosis of nonbiological bypass graft(s) of the extremities, bilateral legs                                 | Diagnosis     | ICD-10-CM |
| I70.698 | Other atherosclerosis of nonbiological bypass graft(s) of the extremities, other extremity                                | Diagnosis     | ICD-10-CM |
| I70.699 | Other atherosclerosis of nonbiological bypass graft(s) of the extremities, unspecified extremity                          | Diagnosis     | ICD-10-CM |
| I70.7   | Atherosclerosis of other type of bypass graft(s) of the extremities   | Diagnosis     | ICD-10-CM |
| I70.70  | Unspecified atherosclerosis of other type of bypass graft(s) of the extremities   | Diagnosis     | ICD-10-CM |
| I70.701 | Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, right leg                                | Diagnosis     | ICD-10-CM |
| I70.702 | Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, left leg                                 | Diagnosis     | ICD-10-CM |
| I70.703 | Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, bilateral legs                           | Diagnosis     | ICD-10-CM |
| I70.708 | Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, other extremity                          | Diagnosis     | ICD-10-CM |
| I70.709 | Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, unspecified extremity                    | Diagnosis     | ICD-10-CM |
| I70.71  | Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication                        | Diagnosis     | ICD-10-CM |
| I70.711 | Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, right leg             | Diagnosis     | ICD-10-CM |
| I70.712 | Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, left leg              | Diagnosis     | ICD-10-CM |
| I70.713 | Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, bilateral legs        | Diagnosis     | ICD-10-CM |
| I70.718 | Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, other extremity       | Diagnosis     | ICD-10-CM |
| I70.719 | Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, unspecified extremity | Diagnosis     | ICD-10-CM |
| I70.72  | Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain  | Diagnosis     | ICD-10-CM |
| I70.721 | Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, right leg                             | Diagnosis     | ICD-10-CM |
| I70.722 | Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, left leg                              | Diagnosis     | ICD-10-CM |
| I70.723 | Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, bilateral legs                        | Diagnosis     | ICD-10-CM |
| I70.728 | Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, other extremity                       | Diagnosis     | ICD-10-CM |
| I70.729 | Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, unspecified extremity                 | Diagnosis     | ICD-10-CM |
| I70.73  | Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration   | Diagnosis     | ICD-10-CM |
| I70.731 | Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of thigh                                | Diagnosis     | ICD-10-CM |
| I70.732 | Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of calf                                 | Diagnosis     | ICD-10-CM |
| I70.733 | Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of ankle                                | Diagnosis     | ICD-10-CM |
| I70.734 | Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of heel and midfoot                     | Diagnosis     | ICD-10-CM |
| I70.735 | Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of other part of foot                   | Diagnosis     | ICD-10-CM |
| I70.738 | Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of other part of lower leg              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| I70.739 | Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of unspecified site       | Diagnosis     | ICD-10-CM |
| I70.74  | Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration                            | Diagnosis     | ICD-10-CM |
| I70.741 | Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of thigh                   | Diagnosis     | ICD-10-CM |
| I70.742 | Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of calf                    | Diagnosis     | ICD-10-CM |
| I70.743 | Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of ankle                   | Diagnosis     | ICD-10-CM |
| I70.744 | Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of heel and midfoot        | Diagnosis     | ICD-10-CM |
| I70.745 | Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of other part of foot      | Diagnosis     | ICD-10-CM |
| I70.748 | Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of other part of lower leg | Diagnosis     | ICD-10-CM |
| I70.749 | Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of unspecified site        | Diagnosis     | ICD-10-CM |
| I70.75  | Atherosclerosis of other type of bypass graft(s) of other extremity with ulceration                         | Diagnosis     | ICD-10-CM |
| I70.76  | Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene                           | Diagnosis     | ICD-10-CM |
| I70.761 | Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, right leg                | Diagnosis     | ICD-10-CM |
| I70.762 | Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, left leg                 | Diagnosis     | ICD-10-CM |
| I70.763 | Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, bilateral legs           | Diagnosis     | ICD-10-CM |
| I70.768 | Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, other extremity          | Diagnosis     | ICD-10-CM |
| I70.769 | Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, unspecified extremity    | Diagnosis     | ICD-10-CM |
| I70.79  | Other atherosclerosis of other type of bypass graft(s) of the extremities                                   | Diagnosis     | ICD-10-CM |
| I70.791 | Other atherosclerosis of other type of bypass graft(s) of the extremities, right leg                        | Diagnosis     | ICD-10-CM |
| I70.792 | Other atherosclerosis of other type of bypass graft(s) of the extremities, left leg                         | Diagnosis     | ICD-10-CM |
| I70.793 | Other atherosclerosis of other type of bypass graft(s) of the extremities, bilateral legs                   | Diagnosis     | ICD-10-CM |
| I70.798 | Other atherosclerosis of other type of bypass graft(s) of the extremities, other extremity                  | Diagnosis     | ICD-10-CM |
| I70.799 | Other atherosclerosis of other type of bypass graft(s) of the extremities, unspecified extremity            | Diagnosis     | ICD-10-CM |
| I70.8   | Atherosclerosis of other arteries   | Diagnosis     | ICD-10-CM |
| I70.9   | Other and unspecified atherosclerosis   | Diagnosis     | ICD-10-CM |
| I70.90  | Unspecified atherosclerosis   | Diagnosis     | ICD-10-CM |
| I70.91  | Generalized atherosclerosis   | Diagnosis     | ICD-10-CM |
| I70.92  | Chronic total occlusion of artery of the extremities  | Diagnosis     | ICD-10-CM |
| I71.0   | Dissection of aorta   | Diagnosis     | ICD-10-CM |
| I71.00  | Dissection of unspecified site of aorta   | Diagnosis     | ICD-10-CM |
| I71.01  | Dissection of thoracic aorta  | Diagnosis     | ICD-10-CM |
| I71.010 | Dissection of ascending aorta   | Diagnosis     | ICD-10-CM |
| I71.011 | Dissection of aortic arch   | Diagnosis     | ICD-10-CM |
| I71.012 | Dissection of descending thoracic aorta   | Diagnosis     | ICD-10-CM |
| I71.019 | Dissection of thoracic aorta, unspecified   | Diagnosis     | ICD-10-CM |
| I71.02  | Dissection of abdominal aorta   | Diagnosis     | ICD-10-CM |
| I71.03  | Dissection of thoracoabdominal aorta  | Diagnosis     | ICD-10-CM |
| I71.1   | Thoracic aortic aneurysm, ruptured  | Diagnosis     | ICD-10-CM |
| I71.10  | Thoracic aortic aneurysm, ruptured, unspecified   | Diagnosis     | ICD-10-CM |
| I71.11  | Aneurysm of the ascending aorta, ruptured   | Diagnosis     | ICD-10-CM |
| I71.12  | Aneurysm of the aortic arch, ruptured   | Diagnosis     | ICD-10-CM |
| I71.13  | Aneurysm of the descending thoracic aorta, ruptured   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description  | Code Category | Code Type |
|--------|--|---------------|-----------|
| I71.2  | Thoracic aortic aneurysm, without rupture                            | Diagnosis     | ICD-10-CM |
| I71.20 | Thoracic aortic aneurysm, without rupture, unspecified               | Diagnosis     | ICD-10-CM |
| I71.21 | Aneurysm of the ascending aorta, without rupture                     | Diagnosis     | ICD-10-CM |
| I71.22 | Aneurysm of the aortic arch, without rupture                         | Diagnosis     | ICD-10-CM |
| I71.23 | Aneurysm of the descending thoracic aorta, without rupture           | Diagnosis     | ICD-10-CM |
| I71.3  | Abdominal aortic aneurysm, ruptured                                  | Diagnosis     | ICD-10-CM |
| I71.30 | Abdominal aortic aneurysm, ruptured, unspecified                     | Diagnosis     | ICD-10-CM |
| I71.31 | Pararenal abdominal aortic aneurysm, ruptured                        | Diagnosis     | ICD-10-CM |
| I71.32 | Juxtarenal abdominal aortic aneurysm, ruptured                       | Diagnosis     | ICD-10-CM |
| I71.33 | Infrarenal abdominal aortic aneurysm, ruptured                       | Diagnosis     | ICD-10-CM |
| I71.4  | Abdominal aortic aneurysm, without rupture                           | Diagnosis     | ICD-10-CM |
| I71.40 | Abdominal aortic aneurysm, without rupture, unspecified              | Diagnosis     | ICD-10-CM |
| I71.41 | Pararenal abdominal aortic aneurysm, without rupture                 | Diagnosis     | ICD-10-CM |
| I71.42 | Juxtarenal abdominal aortic aneurysm, without rupture                | Diagnosis     | ICD-10-CM |
| I71.43 | Infrarenal abdominal aortic aneurysm, without rupture                | Diagnosis     | ICD-10-CM |
| I71.5  | Thoracoabdominal aortic aneurysm, ruptured                           | Diagnosis     | ICD-10-CM |
| I71.50 | Thoracoabdominal aortic aneurysm, ruptured, unspecified              | Diagnosis     | ICD-10-CM |
| I71.51 | Supraceliac aneurysm of the thoracoabdominal aorta, ruptured         | Diagnosis     | ICD-10-CM |
| I71.52 | Paravisceral aneurysm of the thoracoabdominal aorta, ruptured        | Diagnosis     | ICD-10-CM |
| I71.6  | Thoracoabdominal aortic aneurysm, without rupture                    | Diagnosis     | ICD-10-CM |
| I71.60 | Thoracoabdominal aortic aneurysm, without rupture, unspecified       | Diagnosis     | ICD-10-CM |
| I71.61 | Supraceliac aneurysm of the thoracoabdominal aorta, without rupture  | Diagnosis     | ICD-10-CM |
| I71.62 | Paravisceral aneurysm of the thoracoabdominal aorta, without rupture | Diagnosis     | ICD-10-CM |
| I71.8  | Aortic aneurysm of unspecified site, ruptured                        | Diagnosis     | ICD-10-CM |
| I71.9  | Aortic aneurysm of unspecified site, without rupture                 | Diagnosis     | ICD-10-CM |
| I72.0  | Aneurysm of carotid artery   | Diagnosis     | ICD-10-CM |
| I72.1  | Aneurysm of artery of upper extremity                                | Diagnosis     | ICD-10-CM |
| I72.2  | Aneurysm of renal artery   | Diagnosis     | ICD-10-CM |
| I72.3  | Aneurysm of iliac artery   | Diagnosis     | ICD-10-CM |
| I72.4  | Aneurysm of artery of lower extremity                                | Diagnosis     | ICD-10-CM |
| I72.5  | Aneurysm of other precerebral arteries                               | Diagnosis     | ICD-10-CM |
| I72.6  | Aneurysm of vertebral artery   | Diagnosis     | ICD-10-CM |
| I72.8  | Aneurysm of other specified arteries                                 | Diagnosis     | ICD-10-CM |
| I72.9  | Aneurysm of unspecified site   | Diagnosis     | ICD-10-CM |
| I73.0  | Raynaud's syndrome   | Diagnosis     | ICD-10-CM |
| I73.00 | Raynaud's syndrome without gangrene                                  | Diagnosis     | ICD-10-CM |
| I73.01 | Raynaud's syndrome with gangrene                                     | Diagnosis     | ICD-10-CM |
| I73.1  | Thromboangiitis obliterans [Buerger's disease]                       | Diagnosis     | ICD-10-CM |
| I73.8  | Other specified peripheral vascular diseases                         | Diagnosis     | ICD-10-CM |
| I73.81 | Erythromelalgia  | Diagnosis     | ICD-10-CM |
| I73.89 | Other specified peripheral vascular diseases                         | Diagnosis     | ICD-10-CM |
| I73.9  | Peripheral vascular disease, unspecified                             | Diagnosis     | ICD-10-CM |
| I74.0  | Embolism and thrombosis of abdominal aorta                           | Diagnosis     | ICD-10-CM |
| I74.01 | Saddle embolus of abdominal aorta                                    | Diagnosis     | ICD-10-CM |
| I74.09 | Other arterial embolism and thrombosis of abdominal aorta            | Diagnosis     | ICD-10-CM |
| I74.1  | Embolism and thrombosis of other and unspecified parts of aorta      | Diagnosis     | ICD-10-CM |
| I74.10 | Embolism and thrombosis of unspecified parts of aorta                | Diagnosis     | ICD-10-CM |
| I74.11 | Embolism and thrombosis of thoracic aorta                            | Diagnosis     | ICD-10-CM |
| I74.19 | Embolism and thrombosis of other parts of aorta                      | Diagnosis     | ICD-10-CM |
| I74.2  | Embolism and thrombosis of arteries of the upper extremities         | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| I74.3   | Embolism and thrombosis of arteries of the lower extremities    | Diagnosis     | ICD-10-CM |
| I74.4   | Embolism and thrombosis of arteries of extremities, unspecified | Diagnosis     | ICD-10-CM |
| I74.5   | Embolism and thrombosis of iliac artery                         | Diagnosis     | ICD-10-CM |
| I74.8   | Embolism and thrombosis of other arteries                       | Diagnosis     | ICD-10-CM |
| I74.9   | Embolism and thrombosis of unspecified artery                   | Diagnosis     | ICD-10-CM |
| I75.0   | Atheroembolism of extremities                                   | Diagnosis     | ICD-10-CM |
| I75.01  | Atheroembolism of upper extremity                               | Diagnosis     | ICD-10-CM |
| I75.011 | Atheroembolism of right upper extremity                         | Diagnosis     | ICD-10-CM |
| I75.012 | Atheroembolism of left upper extremity                          | Diagnosis     | ICD-10-CM |
| I75.013 | Atheroembolism of bilateral upper extremities                   | Diagnosis     | ICD-10-CM |
| I75.019 | Atheroembolism of unspecified upper extremity                   | Diagnosis     | ICD-10-CM |
| I75.02  | Atheroembolism of lower extremity                               | Diagnosis     | ICD-10-CM |
| I75.021 | Atheroembolism of right lower extremity                         | Diagnosis     | ICD-10-CM |
| I75.022 | Atheroembolism of left lower extremity                          | Diagnosis     | ICD-10-CM |
| I75.023 | Atheroembolism of bilateral lower extremities                   | Diagnosis     | ICD-10-CM |
| I75.029 | Atheroembolism of unspecified lower extremity                   | Diagnosis     | ICD-10-CM |
| I75.8   | Atheroembolism of other sites                                   | Diagnosis     | ICD-10-CM |
| I75.81  | Atheroembolism of kidney  | Diagnosis     | ICD-10-CM |
| I75.89  | Atheroembolism of other site                                    | Diagnosis     | ICD-10-CM |
| I77.0   | Arteriovenous fistula, acquired                                 | Diagnosis     | ICD-10-CM |
| I77.1   | Stricture of artery   | Diagnosis     | ICD-10-CM |
| I77.2   | Rupture of artery   | Diagnosis     | ICD-10-CM |
| I77.3   | Arterial fibromuscular dysplasia                                | Diagnosis     | ICD-10-CM |
| I77.4   | Celiac artery compression syndrome                              | Diagnosis     | ICD-10-CM |
| I77.5   | Necrosis of artery  | Diagnosis     | ICD-10-CM |
| I77.6   | Arteritis, unspecified  | Diagnosis     | ICD-10-CM |
| I77.7   | Other arterial dissection                                       | Diagnosis     | ICD-10-CM |
| I77.70  | Dissection of unspecified artery                                | Diagnosis     | ICD-10-CM |
| I77.71  | Dissection of carotid artery                                    | Diagnosis     | ICD-10-CM |
| I77.72  | Dissection of iliac artery                                      | Diagnosis     | ICD-10-CM |
| I77.73  | Dissection of renal artery                                      | Diagnosis     | ICD-10-CM |
| I77.74  | Dissection of vertebral artery                                  | Diagnosis     | ICD-10-CM |
| I77.75  | Dissection of other precerebral arteries                        | Diagnosis     | ICD-10-CM |
| I77.76  | Dissection of artery of upper extremity                         | Diagnosis     | ICD-10-CM |
| I77.77  | Dissection of artery of lower extremity                         | Diagnosis     | ICD-10-CM |
| I77.79  | Dissection of other specified artery                            | Diagnosis     | ICD-10-CM |
| I77.8   | Other specified disorders of arteries and arterioles            | Diagnosis     | ICD-10-CM |
| I77.81  | Aortic ectasia  | Diagnosis     | ICD-10-CM |
| I77.810 | Thoracic aortic ectasia   | Diagnosis     | ICD-10-CM |
| I77.811 | Abdominal aortic ectasia  | Diagnosis     | ICD-10-CM |
| I77.812 | Thoracoabdominal aortic ectasia                                 | Diagnosis     | ICD-10-CM |
| I77.819 | Aortic ectasia, unspecified site                                | Diagnosis     | ICD-10-CM |
| I77.82  | Antineutrophilic cytoplasmic antibody [ANCA] vasculitis         | Diagnosis     | ICD-10-CM |
| I77.89  | Other specified disorders of arteries and arterioles            | Diagnosis     | ICD-10-CM |
| I77.9   | Disorder of arteries and arterioles, unspecified                | Diagnosis     | ICD-10-CM |
| I78.0   | Hereditary hemorrhagic telangiectasia                           | Diagnosis     | ICD-10-CM |
| I78.1   | Nevus, non-neoplastic   | Diagnosis     | ICD-10-CM |
| I78.8   | Other diseases of capillaries                                   | Diagnosis     | ICD-10-CM |
| I78.9   | Disease of capillaries, unspecified                             | Diagnosis     | ICD-10-CM |
| I79.0   | Aneurysm of aorta in diseases classified elsewhere              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| I79.1   | Aortitis in diseases classified elsewhere  | Diagnosis     | ICD-10-CM |
| I79.8   | Other disorders of arteries, arterioles and capillaries in diseases classified elsewhere   | Diagnosis     | ICD-10-CM |
| I80.0   | Phlebitis and thrombophlebitis of superficial vessels of lower extremities                 | Diagnosis     | ICD-10-CM |
| I80.00  | Phlebitis and thrombophlebitis of superficial vessels of unspecified lower extremity       | Diagnosis     | ICD-10-CM |
| I80.01  | Phlebitis and thrombophlebitis of superficial vessels of right lower extremity             | Diagnosis     | ICD-10-CM |
| I80.02  | Phlebitis and thrombophlebitis of superficial vessels of left lower extremity              | Diagnosis     | ICD-10-CM |
| I80.03  | Phlebitis and thrombophlebitis of superficial vessels of lower extremities, bilateral      | Diagnosis     | ICD-10-CM |
| I80.1   | Phlebitis and thrombophlebitis of femoral vein   | Diagnosis     | ICD-10-CM |
| I80.10  | Phlebitis and thrombophlebitis of unspecified femoral vein                                 | Diagnosis     | ICD-10-CM |
| I80.11  | Phlebitis and thrombophlebitis of right femoral vein                                       | Diagnosis     | ICD-10-CM |
| I80.12  | Phlebitis and thrombophlebitis of left femoral vein  | Diagnosis     | ICD-10-CM |
| I80.13  | Phlebitis and thrombophlebitis of femoral vein, bilateral                                  | Diagnosis     | ICD-10-CM |
| I80.2   | Phlebitis and thrombophlebitis of other and unspecified deep vessels of lower extremities  | Diagnosis     | ICD-10-CM |
| I80.20  | Phlebitis and thrombophlebitis of unspecified deep vessels of lower extremities            | Diagnosis     | ICD-10-CM |
| I80.201 | Phlebitis and thrombophlebitis of unspecified deep vessels of right lower extremity        | Diagnosis     | ICD-10-CM |
| I80.202 | Phlebitis and thrombophlebitis of unspecified deep vessels of left lower extremity         | Diagnosis     | ICD-10-CM |
| I80.203 | Phlebitis and thrombophlebitis of unspecified deep vessels of lower extremities, bilateral | Diagnosis     | ICD-10-CM |
| I80.209 | Phlebitis and thrombophlebitis of unspecified deep vessels of unspecified lower extremity  | Diagnosis     | ICD-10-CM |
| I80.21  | Phlebitis and thrombophlebitis of iliac vein   | Diagnosis     | ICD-10-CM |
| I80.211 | Phlebitis and thrombophlebitis of right iliac vein   | Diagnosis     | ICD-10-CM |
| I80.212 | Phlebitis and thrombophlebitis of left iliac vein  | Diagnosis     | ICD-10-CM |
| I80.213 | Phlebitis and thrombophlebitis of iliac vein, bilateral                                    | Diagnosis     | ICD-10-CM |
| I80.219 | Phlebitis and thrombophlebitis of unspecified iliac vein                                   | Diagnosis     | ICD-10-CM |
| I80.22  | Phlebitis and thrombophlebitis of popliteal vein   | Diagnosis     | ICD-10-CM |
| I80.221 | Phlebitis and thrombophlebitis of right popliteal vein                                     | Diagnosis     | ICD-10-CM |
| I80.222 | Phlebitis and thrombophlebitis of left popliteal vein                                      | Diagnosis     | ICD-10-CM |
| I80.223 | Phlebitis and thrombophlebitis of popliteal vein, bilateral                                | Diagnosis     | ICD-10-CM |
| I80.229 | Phlebitis and thrombophlebitis of unspecified popliteal vein                               | Diagnosis     | ICD-10-CM |
| I80.23  | Phlebitis and thrombophlebitis of tibial vein  | Diagnosis     | ICD-10-CM |
| I80.231 | Phlebitis and thrombophlebitis of right tibial vein  | Diagnosis     | ICD-10-CM |
| I80.232 | Phlebitis and thrombophlebitis of left tibial vein   | Diagnosis     | ICD-10-CM |
| I80.233 | Phlebitis and thrombophlebitis of tibial vein, bilateral                                   | Diagnosis     | ICD-10-CM |
| I80.239 | Phlebitis and thrombophlebitis of unspecified tibial vein                                  | Diagnosis     | ICD-10-CM |
| I80.24  | Phlebitis and thrombophlebitis of peroneal vein  | Diagnosis     | ICD-10-CM |
| I80.241 | Phlebitis and thrombophlebitis of right peroneal vein                                      | Diagnosis     | ICD-10-CM |
| I80.242 | Phlebitis and thrombophlebitis of left peroneal vein                                       | Diagnosis     | ICD-10-CM |
| I80.243 | Phlebitis and thrombophlebitis of peroneal vein, bilateral                                 | Diagnosis     | ICD-10-CM |
| I80.249 | Phlebitis and thrombophlebitis of unspecified peroneal vein                                | Diagnosis     | ICD-10-CM |
| I80.25  | Phlebitis and thrombophlebitis of calf muscular vein                                       | Diagnosis     | ICD-10-CM |
| I80.251 | Phlebitis and thrombophlebitis of right calf muscular vein                                 | Diagnosis     | ICD-10-CM |
| I80.252 | Phlebitis and thrombophlebitis of left calf muscular vein                                  | Diagnosis     | ICD-10-CM |
| I80.253 | Phlebitis and thrombophlebitis of calf muscular vein, bilateral                            | Diagnosis     | ICD-10-CM |
| I80.259 | Phlebitis and thrombophlebitis of unspecified calf muscular vein                           | Diagnosis     | ICD-10-CM |
| I80.29  | Phlebitis and thrombophlebitis of other deep vessels of lower extremities                  | Diagnosis     | ICD-10-CM |
| I80.291 | Phlebitis and thrombophlebitis of other deep vessels of right lower extremity              | Diagnosis     | ICD-10-CM |
| I80.292 | Phlebitis and thrombophlebitis of other deep vessels of left lower extremity               | Diagnosis     | ICD-10-CM |
| I80.293 | Phlebitis and thrombophlebitis of other deep vessels of lower extremity, bilateral         | Diagnosis     | ICD-10-CM |
| I80.299 | Phlebitis and thrombophlebitis of other deep vessels of unspecified lower extremity        | Diagnosis     | ICD-10-CM |
| I80.3   | Phlebitis and thrombophlebitis of lower extremities, unspecified                           | Diagnosis     | ICD-10-CM |
| I80.8   | Phlebitis and thrombophlebitis of other sites  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| I80.9   | Phlebitis and thrombophlebitis of unspecified site                                     | Diagnosis     | ICD-10-CM |
| I82.0   | Budd-Chiari syndrome   | Diagnosis     | ICD-10-CM |
| I82.1   | Thrombophlebitis migrans   | Diagnosis     | ICD-10-CM |
| I82.2   | Embolism and thrombosis of vena cava and other thoracic veins                          | Diagnosis     | ICD-10-CM |
| I82.21  | Embolism and thrombosis of superior vena cava  | Diagnosis     | ICD-10-CM |
| I82.210 | Acute embolism and thrombosis of superior vena cava                                    | Diagnosis     | ICD-10-CM |
| I82.211 | Chronic embolism and thrombosis of superior vena cava                                  | Diagnosis     | ICD-10-CM |
| I82.22  | Embolism and thrombosis of inferior vena cava  | Diagnosis     | ICD-10-CM |
| I82.220 | Acute embolism and thrombosis of inferior vena cava                                    | Diagnosis     | ICD-10-CM |
| I82.221 | Chronic embolism and thrombosis of inferior vena cava                                  | Diagnosis     | ICD-10-CM |
| I82.29  | Embolism and thrombosis of other thoracic veins  | Diagnosis     | ICD-10-CM |
| I82.290 | Acute embolism and thrombosis of other thoracic veins                                  | Diagnosis     | ICD-10-CM |
| I82.291 | Chronic embolism and thrombosis of other thoracic veins                                | Diagnosis     | ICD-10-CM |
| I82.3   | Embolism and thrombosis of renal vein  | Diagnosis     | ICD-10-CM |
| I82.4   | Acute embolism and thrombosis of deep veins of lower extremity                         | Diagnosis     | ICD-10-CM |
| I82.40  | Acute embolism and thrombosis of unspecified deep veins of lower extremity             | Diagnosis     | ICD-10-CM |
| I82.401 | Acute embolism and thrombosis of unspecified deep veins of right lower extremity       | Diagnosis     | ICD-10-CM |
| I82.402 | Acute embolism and thrombosis of unspecified deep veins of left lower extremity        | Diagnosis     | ICD-10-CM |
| I82.403 | Acute embolism and thrombosis of unspecified deep veins of lower extremity, bilateral  | Diagnosis     | ICD-10-CM |
| I82.409 | Acute embolism and thrombosis of unspecified deep veins of unspecified lower extremity | Diagnosis     | ICD-10-CM |
| I82.41  | Acute embolism and thrombosis of femoral vein  | Diagnosis     | ICD-10-CM |
| I82.411 | Acute embolism and thrombosis of right femoral vein                                    | Diagnosis     | ICD-10-CM |
| I82.412 | Acute embolism and thrombosis of left femoral vein                                     | Diagnosis     | ICD-10-CM |
| I82.413 | Acute embolism and thrombosis of femoral vein, bilateral                               | Diagnosis     | ICD-10-CM |
| I82.419 | Acute embolism and thrombosis of unspecified femoral vein                              | Diagnosis     | ICD-10-CM |
| I82.42  | Acute embolism and thrombosis of iliac vein  | Diagnosis     | ICD-10-CM |
| I82.421 | Acute embolism and thrombosis of right iliac vein                                      | Diagnosis     | ICD-10-CM |
| I82.422 | Acute embolism and thrombosis of left iliac vein                                       | Diagnosis     | ICD-10-CM |
| I82.423 | Acute embolism and thrombosis of iliac vein, bilateral                                 | Diagnosis     | ICD-10-CM |
| I82.429 | Acute embolism and thrombosis of unspecified iliac vein                                | Diagnosis     | ICD-10-CM |
| I82.43  | Acute embolism and thrombosis of popliteal vein  | Diagnosis     | ICD-10-CM |
| I82.431 | Acute embolism and thrombosis of right popliteal vein                                  | Diagnosis     | ICD-10-CM |
| I82.432 | Acute embolism and thrombosis of left popliteal vein                                   | Diagnosis     | ICD-10-CM |
| I82.433 | Acute embolism and thrombosis of popliteal vein, bilateral                             | Diagnosis     | ICD-10-CM |
| I82.439 | Acute embolism and thrombosis of unspecified popliteal vein                            | Diagnosis     | ICD-10-CM |
| I82.44  | Acute embolism and thrombosis of tibial vein   | Diagnosis     | ICD-10-CM |
| I82.441 | Acute embolism and thrombosis of right tibial vein                                     | Diagnosis     | ICD-10-CM |
| I82.442 | Acute embolism and thrombosis of left tibial vein                                      | Diagnosis     | ICD-10-CM |
| I82.443 | Acute embolism and thrombosis of tibial vein, bilateral                                | Diagnosis     | ICD-10-CM |
| I82.449 | Acute embolism and thrombosis of unspecified tibial vein                               | Diagnosis     | ICD-10-CM |
| I82.45  | Acute embolism and thrombosis of peroneal vein   | Diagnosis     | ICD-10-CM |
| I82.451 | Acute embolism and thrombosis of right peroneal vein                                   | Diagnosis     | ICD-10-CM |
| I82.452 | Acute embolism and thrombosis of left peroneal vein                                    | Diagnosis     | ICD-10-CM |
| I82.453 | Acute embolism and thrombosis of peroneal vein, bilateral                              | Diagnosis     | ICD-10-CM |
| I82.459 | Acute embolism and thrombosis of unspecified peroneal vein                             | Diagnosis     | ICD-10-CM |
| I82.46  | Acute embolism and thrombosis of calf muscular vein                                    | Diagnosis     | ICD-10-CM |
| I82.461 | Acute embolism and thrombosis of right calf muscular vein                              | Diagnosis     | ICD-10-CM |
| I82.462 | Acute embolism and thrombosis of left calf muscular vein                               | Diagnosis     | ICD-10-CM |
| I82.463 | Acute embolism and thrombosis of calf muscular vein, bilateral                         | Diagnosis     | ICD-10-CM |
| I82.469 | Acute embolism and thrombosis of unspecified calf muscular vein                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| I82.49  | Acute embolism and thrombosis of other specified deep vein of lower extremity                   | Diagnosis     | ICD-10-CM |
| I82.491 | Acute embolism and thrombosis of other specified deep vein of right lower extremity             | Diagnosis     | ICD-10-CM |
| I82.492 | Acute embolism and thrombosis of other specified deep vein of left lower extremity              | Diagnosis     | ICD-10-CM |
| I82.493 | Acute embolism and thrombosis of other specified deep vein of lower extremity, bilateral        | Diagnosis     | ICD-10-CM |
| I82.499 | Acute embolism and thrombosis of other specified deep vein of unspecified lower extremity       | Diagnosis     | ICD-10-CM |
| I82.4Y  | Acute embolism and thrombosis of unspecified deep veins of proximal lower extremity             | Diagnosis     | ICD-10-CM |
| I82.4Y1 | Acute embolism and thrombosis of unspecified deep veins of right proximal lower extremity       | Diagnosis     | ICD-10-CM |
| I82.4Y2 | Acute embolism and thrombosis of unspecified deep veins of left proximal lower extremity        | Diagnosis     | ICD-10-CM |
| I82.4Y3 | Acute embolism and thrombosis of unspecified deep veins of proximal lower extremity, bilateral  | Diagnosis     | ICD-10-CM |
| I82.4Y9 | Acute embolism and thrombosis of unspecified deep veins of unspecified proximal lower extremity | Diagnosis     | ICD-10-CM |
| I82.4Z  | Acute embolism and thrombosis of unspecified deep veins of distal lower extremity               | Diagnosis     | ICD-10-CM |
| I82.4Z1 | Acute embolism and thrombosis of unspecified deep veins of right distal lower extremity         | Diagnosis     | ICD-10-CM |
| I82.4Z2 | Acute embolism and thrombosis of unspecified deep veins of left distal lower extremity          | Diagnosis     | ICD-10-CM |
| I82.4Z3 | Acute embolism and thrombosis of unspecified deep veins of distal lower extremity, bilateral    | Diagnosis     | ICD-10-CM |
| I82.4Z9 | Acute embolism and thrombosis of unspecified deep veins of unspecified distal lower extremity   | Diagnosis     | ICD-10-CM |
| I82.5   | Chronic embolism and thrombosis of deep veins of lower extremity                                | Diagnosis     | ICD-10-CM |
| I82.50  | Chronic embolism and thrombosis of unspecified deep veins of lower extremity                    | Diagnosis     | ICD-10-CM |
| I82.501 | Chronic embolism and thrombosis of unspecified deep veins of right lower extremity              | Diagnosis     | ICD-10-CM |
| I82.502 | Chronic embolism and thrombosis of unspecified deep veins of left lower extremity               | Diagnosis     | ICD-10-CM |
| I82.503 | Chronic embolism and thrombosis of unspecified deep veins of lower extremity, bilateral         | Diagnosis     | ICD-10-CM |
| I82.509 | Chronic embolism and thrombosis of unspecified deep veins of unspecified lower extremity        | Diagnosis     | ICD-10-CM |
| I82.51  | Chronic embolism and thrombosis of femoral vein   | Diagnosis     | ICD-10-CM |
| I82.511 | Chronic embolism and thrombosis of right femoral vein   | Diagnosis     | ICD-10-CM |
| I82.512 | Chronic embolism and thrombosis of left femoral vein  | Diagnosis     | ICD-10-CM |
| I82.513 | Chronic embolism and thrombosis of femoral vein, bilateral                                      | Diagnosis     | ICD-10-CM |
| I82.519 | Chronic embolism and thrombosis of unspecified femoral vein                                     | Diagnosis     | ICD-10-CM |
| I82.52  | Chronic embolism and thrombosis of iliac vein   | Diagnosis     | ICD-10-CM |
| I82.521 | Chronic embolism and thrombosis of right iliac vein   | Diagnosis     | ICD-10-CM |
| I82.522 | Chronic embolism and thrombosis of left iliac vein  | Diagnosis     | ICD-10-CM |
| I82.523 | Chronic embolism and thrombosis of iliac vein, bilateral  | Diagnosis     | ICD-10-CM |
| I82.529 | Chronic embolism and thrombosis of unspecified iliac vein                                       | Diagnosis     | ICD-10-CM |
| I82.53  | Chronic embolism and thrombosis of popliteal vein   | Diagnosis     | ICD-10-CM |
| I82.531 | Chronic embolism and thrombosis of right popliteal vein   | Diagnosis     | ICD-10-CM |
| I82.532 | Chronic embolism and thrombosis of left popliteal vein  | Diagnosis     | ICD-10-CM |
| I82.533 | Chronic embolism and thrombosis of popliteal vein, bilateral                                    | Diagnosis     | ICD-10-CM |
| I82.539 | Chronic embolism and thrombosis of unspecified popliteal vein                                   | Diagnosis     | ICD-10-CM |
| I82.54  | Chronic embolism and thrombosis of tibial vein  | Diagnosis     | ICD-10-CM |
| I82.541 | Chronic embolism and thrombosis of right tibial vein  | Diagnosis     | ICD-10-CM |
| I82.542 | Chronic embolism and thrombosis of left tibial vein   | Diagnosis     | ICD-10-CM |
| I82.543 | Chronic embolism and thrombosis of tibial vein, bilateral                                       | Diagnosis     | ICD-10-CM |
| I82.549 | Chronic embolism and thrombosis of unspecified tibial vein                                      | Diagnosis     | ICD-10-CM |
| I82.55  | Chronic embolism and thrombosis of peroneal vein  | Diagnosis     | ICD-10-CM |
| I82.551 | Chronic embolism and thrombosis of right peroneal vein  | Diagnosis     | ICD-10-CM |
| I82.552 | Chronic embolism and thrombosis of left peroneal vein   | Diagnosis     | ICD-10-CM |
| I82.553 | Chronic embolism and thrombosis of peroneal vein, bilateral                                     | Diagnosis     | ICD-10-CM |
| I82.559 | Chronic embolism and thrombosis of unspecified peroneal vein                                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| I82.56  | Chronic embolism and thrombosis of calf muscular vein   | Diagnosis     | ICD-10-CM |
| I82.561 | Chronic embolism and thrombosis of right calf muscular vein                                       | Diagnosis     | ICD-10-CM |
| I82.562 | Chronic embolism and thrombosis of left calf muscular vein  | Diagnosis     | ICD-10-CM |
| I82.563 | Chronic embolism and thrombosis of calf muscular vein, bilateral                                  | Diagnosis     | ICD-10-CM |
| I82.569 | Chronic embolism and thrombosis of unspecified calf muscular vein                                 | Diagnosis     | ICD-10-CM |
| I82.59  | Chronic embolism and thrombosis of other specified deep vein of lower extremity                   | Diagnosis     | ICD-10-CM |
| I82.591 | Chronic embolism and thrombosis of other specified deep vein of right lower extremity             | Diagnosis     | ICD-10-CM |
| I82.592 | Chronic embolism and thrombosis of other specified deep vein of left lower extremity              | Diagnosis     | ICD-10-CM |
| I82.593 | Chronic embolism and thrombosis of other specified deep vein of lower extremity, bilateral        | Diagnosis     | ICD-10-CM |
| I82.599 | Chronic embolism and thrombosis of other specified deep vein of unspecified lower extremity       | Diagnosis     | ICD-10-CM |
| I82.5Y  | Chronic embolism and thrombosis of unspecified deep veins of proximal lower extremity             | Diagnosis     | ICD-10-CM |
| I82.5Y1 | Chronic embolism and thrombosis of unspecified deep veins of right proximal lower extremity       | Diagnosis     | ICD-10-CM |
| I82.5Y2 | Chronic embolism and thrombosis of unspecified deep veins of left proximal lower extremity        | Diagnosis     | ICD-10-CM |
| I82.5Y3 | Chronic embolism and thrombosis of unspecified deep veins of proximal lower extremity, bilateral  | Diagnosis     | ICD-10-CM |
| I82.5Y9 | Chronic embolism and thrombosis of unspecified deep veins of unspecified proximal lower extremity | Diagnosis     | ICD-10-CM |
| I82.5Z  | Chronic embolism and thrombosis of unspecified deep veins of distal lower extremity               | Diagnosis     | ICD-10-CM |
| I82.5Z1 | Chronic embolism and thrombosis of unspecified deep veins of right distal lower extremity         | Diagnosis     | ICD-10-CM |
| I82.5Z2 | Chronic embolism and thrombosis of unspecified deep veins of left distal lower extremity          | Diagnosis     | ICD-10-CM |
| I82.5Z3 | Chronic embolism and thrombosis of unspecified deep veins of distal lower extremity, bilateral    | Diagnosis     | ICD-10-CM |
| I82.5Z9 | Chronic embolism and thrombosis of unspecified deep veins of unspecified distal lower extremity   | Diagnosis     | ICD-10-CM |
| I82.6   | Acute embolism and thrombosis of veins of upper extremity   | Diagnosis     | ICD-10-CM |
| I82.60  | Acute embolism and thrombosis of unspecified veins of upper extremity                             | Diagnosis     | ICD-10-CM |
| I82.601 | Acute embolism and thrombosis of unspecified veins of right upper extremity                       | Diagnosis     | ICD-10-CM |
| I82.602 | Acute embolism and thrombosis of unspecified veins of left upper extremity                        | Diagnosis     | ICD-10-CM |
| I82.603 | Acute embolism and thrombosis of unspecified veins of upper extremity, bilateral                  | Diagnosis     | ICD-10-CM |
| I82.609 | Acute embolism and thrombosis of unspecified veins of unspecified upper extremity                 | Diagnosis     | ICD-10-CM |
| I82.61  | Acute embolism and thrombosis of superficial veins of upper extremity                             | Diagnosis     | ICD-10-CM |
| I82.611 | Acute embolism and thrombosis of superficial veins of right upper extremity                       | Diagnosis     | ICD-10-CM |
| I82.612 | Acute embolism and thrombosis of superficial veins of left upper extremity                        | Diagnosis     | ICD-10-CM |
| I82.613 | Acute embolism and thrombosis of superficial veins of upper extremity, bilateral                  | Diagnosis     | ICD-10-CM |
| I82.619 | Acute embolism and thrombosis of superficial veins of unspecified upper extremity                 | Diagnosis     | ICD-10-CM |
| I82.62  | Acute embolism and thrombosis of deep veins of upper extremity                                    | Diagnosis     | ICD-10-CM |
| I82.621 | Acute embolism and thrombosis of deep veins of right upper extremity                              | Diagnosis     | ICD-10-CM |
| I82.622 | Acute embolism and thrombosis of deep veins of left upper extremity                               | Diagnosis     | ICD-10-CM |
| I82.623 | Acute embolism and thrombosis of deep veins of upper extremity, bilateral                         | Diagnosis     | ICD-10-CM |
| I82.629 | Acute embolism and thrombosis of deep veins of unspecified upper extremity                        | Diagnosis     | ICD-10-CM |
| I82.7   | Chronic embolism and thrombosis of veins of upper extremity                                       | Diagnosis     | ICD-10-CM |
| I82.70  | Chronic embolism and thrombosis of unspecified veins of upper extremity                           | Diagnosis     | ICD-10-CM |
| I82.701 | Chronic embolism and thrombosis of unspecified veins of right upper extremity                     | Diagnosis     | ICD-10-CM |
| I82.702 | Chronic embolism and thrombosis of unspecified veins of left upper extremity                      | Diagnosis     | ICD-10-CM |
| I82.703 | Chronic embolism and thrombosis of unspecified veins of upper extremity, bilateral                | Diagnosis     | ICD-10-CM |
| I82.709 | Chronic embolism and thrombosis of unspecified veins of unspecified upper extremity               | Diagnosis     | ICD-10-CM |
| I82.71  | Chronic embolism and thrombosis of superficial veins of upper extremity                           | Diagnosis     | ICD-10-CM |
| I82.711 | Chronic embolism and thrombosis of superficial veins of right upper extremity                     | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| I82.712 | Chronic embolism and thrombosis of superficial veins of left upper extremity        | Diagnosis     | ICD-10-CM |
| I82.713 | Chronic embolism and thrombosis of superficial veins of upper extremity, bilateral  | Diagnosis     | ICD-10-CM |
| I82.719 | Chronic embolism and thrombosis of superficial veins of unspecified upper extremity | Diagnosis     | ICD-10-CM |
| I82.72  | Chronic embolism and thrombosis of deep veins of upper extremity                    | Diagnosis     | ICD-10-CM |
| I82.721 | Chronic embolism and thrombosis of deep veins of right upper extremity              | Diagnosis     | ICD-10-CM |
| I82.722 | Chronic embolism and thrombosis of deep veins of left upper extremity               | Diagnosis     | ICD-10-CM |
| I82.723 | Chronic embolism and thrombosis of deep veins of upper extremity, bilateral         | Diagnosis     | ICD-10-CM |
| I82.729 | Chronic embolism and thrombosis of deep veins of unspecified upper extremity        | Diagnosis     | ICD-10-CM |
| I82.8   | Embolism and thrombosis of other specified veins                                    | Diagnosis     | ICD-10-CM |
| I82.81  | Embolism and thrombosis of superficial veins of lower extremities                   | Diagnosis     | ICD-10-CM |
| I82.811 | Embolism and thrombosis of superficial veins of right lower extremity               | Diagnosis     | ICD-10-CM |
| I82.812 | Embolism and thrombosis of superficial veins of left lower extremity                | Diagnosis     | ICD-10-CM |
| I82.813 | Embolism and thrombosis of superficial veins of lower extremities, bilateral        | Diagnosis     | ICD-10-CM |
| I82.819 | Embolism and thrombosis of superficial veins of unspecified lower extremity         | Diagnosis     | ICD-10-CM |
| I82.89  | Embolism and thrombosis of other specified veins                                    | Diagnosis     | ICD-10-CM |
| I82.890 | Acute embolism and thrombosis of other specified veins                              | Diagnosis     | ICD-10-CM |
| I82.891 | Chronic embolism and thrombosis of other specified veins                            | Diagnosis     | ICD-10-CM |
| I82.9   | Embolism and thrombosis of unspecified vein   | Diagnosis     | ICD-10-CM |
| I82.90  | Acute embolism and thrombosis of unspecified vein                                   | Diagnosis     | ICD-10-CM |
| I82.91  | Chronic embolism and thrombosis of unspecified vein                                 | Diagnosis     | ICD-10-CM |
| I82.A   | Embolism and thrombosis of axillary vein  | Diagnosis     | ICD-10-CM |
| I82.A1  | Acute embolism and thrombosis of axillary vein                                      | Diagnosis     | ICD-10-CM |
| I82.A11 | Acute embolism and thrombosis of right axillary vein                                | Diagnosis     | ICD-10-CM |
| I82.A12 | Acute embolism and thrombosis of left axillary vein                                 | Diagnosis     | ICD-10-CM |
| I82.A13 | Acute embolism and thrombosis of axillary vein, bilateral                           | Diagnosis     | ICD-10-CM |
| I82.A19 | Acute embolism and thrombosis of unspecified axillary vein                          | Diagnosis     | ICD-10-CM |
| I82.A2  | Chronic embolism and thrombosis of axillary vein                                    | Diagnosis     | ICD-10-CM |
| I82.A21 | Chronic embolism and thrombosis of right axillary vein                              | Diagnosis     | ICD-10-CM |
| I82.A22 | Chronic embolism and thrombosis of left axillary vein                               | Diagnosis     | ICD-10-CM |
| I82.A23 | Chronic embolism and thrombosis of axillary vein, bilateral                         | Diagnosis     | ICD-10-CM |
| I82.A29 | Chronic embolism and thrombosis of unspecified axillary vein                        | Diagnosis     | ICD-10-CM |
| I82.B   | Embolism and thrombosis of subclavian vein  | Diagnosis     | ICD-10-CM |
| I82.B1  | Acute embolism and thrombosis of subclavian vein                                    | Diagnosis     | ICD-10-CM |
| I82.B11 | Acute embolism and thrombosis of right subclavian vein                              | Diagnosis     | ICD-10-CM |
| I82.B12 | Acute embolism and thrombosis of left subclavian vein                               | Diagnosis     | ICD-10-CM |
| I82.B13 | Acute embolism and thrombosis of subclavian vein, bilateral                         | Diagnosis     | ICD-10-CM |
| I82.B19 | Acute embolism and thrombosis of unspecified subclavian vein                        | Diagnosis     | ICD-10-CM |
| I82.B2  | Chronic embolism and thrombosis of subclavian vein                                  | Diagnosis     | ICD-10-CM |
| I82.B21 | Chronic embolism and thrombosis of right subclavian vein                            | Diagnosis     | ICD-10-CM |
| I82.B22 | Chronic embolism and thrombosis of left subclavian vein                             | Diagnosis     | ICD-10-CM |
| I82.B23 | Chronic embolism and thrombosis of subclavian vein, bilateral                       | Diagnosis     | ICD-10-CM |
| I82.B29 | Chronic embolism and thrombosis of unspecified subclavian vein                      | Diagnosis     | ICD-10-CM |
| I82.C   | Embolism and thrombosis of internal jugular vein                                    | Diagnosis     | ICD-10-CM |
| I82.C1  | Acute embolism and thrombosis of internal jugular vein                              | Diagnosis     | ICD-10-CM |
| I82.C11 | Acute embolism and thrombosis of right internal jugular vein                        | Diagnosis     | ICD-10-CM |
| I82.C12 | Acute embolism and thrombosis of left internal jugular vein                         | Diagnosis     | ICD-10-CM |
| I82.C13 | Acute embolism and thrombosis of internal jugular vein, bilateral                   | Diagnosis     | ICD-10-CM |
| I82.C19 | Acute embolism and thrombosis of unspecified internal jugular vein                  | Diagnosis     | ICD-10-CM |
| I82.C2  | Chronic embolism and thrombosis of internal jugular vein                            | Diagnosis     | ICD-10-CM |
| I82.C21 | Chronic embolism and thrombosis of right internal jugular vein                      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| I82.C22 | Chronic embolism and thrombosis of left internal jugular vein   | Diagnosis     | ICD-10-CM |
| I82.C23 | Chronic embolism and thrombosis of internal jugular vein, bilateral   | Diagnosis     | ICD-10-CM |
| I82.C29 | Chronic embolism and thrombosis of unspecified internal jugular vein  | Diagnosis     | ICD-10-CM |
| I83.0   | Varicose veins of lower extremities with ulcer  | Diagnosis     | ICD-10-CM |
| I83.00  | Varicose veins of unspecified lower extremity with ulcer  | Diagnosis     | ICD-10-CM |
| I83.001 | Varicose veins of unspecified lower extremity with ulcer of thigh   | Diagnosis     | ICD-10-CM |
| I83.002 | Varicose veins of unspecified lower extremity with ulcer of calf  | Diagnosis     | ICD-10-CM |
| I83.003 | Varicose veins of unspecified lower extremity with ulcer of ankle   | Diagnosis     | ICD-10-CM |
| I83.004 | Varicose veins of unspecified lower extremity with ulcer of heel and midfoot                                    | Diagnosis     | ICD-10-CM |
| I83.005 | Varicose veins of unspecified lower extremity with ulcer other part of foot                                     | Diagnosis     | ICD-10-CM |
| I83.008 | Varicose veins of unspecified lower extremity with ulcer other part of lower leg                                | Diagnosis     | ICD-10-CM |
| I83.009 | Varicose veins of unspecified lower extremity with ulcer of unspecified site                                    | Diagnosis     | ICD-10-CM |
| I83.01  | Varicose veins of right lower extremity with ulcer  | Diagnosis     | ICD-10-CM |
| I83.011 | Varicose veins of right lower extremity with ulcer of thigh   | Diagnosis     | ICD-10-CM |
| I83.012 | Varicose veins of right lower extremity with ulcer of calf  | Diagnosis     | ICD-10-CM |
| I83.013 | Varicose veins of right lower extremity with ulcer of ankle   | Diagnosis     | ICD-10-CM |
| I83.014 | Varicose veins of right lower extremity with ulcer of heel and midfoot  | Diagnosis     | ICD-10-CM |
| I83.015 | Varicose veins of right lower extremity with ulcer other part of foot   | Diagnosis     | ICD-10-CM |
| I83.018 | Varicose veins of right lower extremity with ulcer other part of lower leg                                      | Diagnosis     | ICD-10-CM |
| I83.019 | Varicose veins of right lower extremity with ulcer of unspecified site  | Diagnosis     | ICD-10-CM |
| I83.02  | Varicose veins of left lower extremity with ulcer   | Diagnosis     | ICD-10-CM |
| I83.021 | Varicose veins of left lower extremity with ulcer of thigh  | Diagnosis     | ICD-10-CM |
| I83.022 | Varicose veins of left lower extremity with ulcer of calf   | Diagnosis     | ICD-10-CM |
| I83.023 | Varicose veins of left lower extremity with ulcer of ankle  | Diagnosis     | ICD-10-CM |
| I83.024 | Varicose veins of left lower extremity with ulcer of heel and midfoot   | Diagnosis     | ICD-10-CM |
| I83.025 | Varicose veins of left lower extremity with ulcer other part of foot  | Diagnosis     | ICD-10-CM |
| I83.028 | Varicose veins of left lower extremity with ulcer other part of lower leg                                       | Diagnosis     | ICD-10-CM |
| I83.029 | Varicose veins of left lower extremity with ulcer of unspecified site   | Diagnosis     | ICD-10-CM |
| I83.1   | Varicose veins of lower extremities with inflammation   | Diagnosis     | ICD-10-CM |
| I83.10  | Varicose veins of unspecified lower extremity with inflammation   | Diagnosis     | ICD-10-CM |
| I83.11  | Varicose veins of right lower extremity with inflammation   | Diagnosis     | ICD-10-CM |
| I83.12  | Varicose veins of left lower extremity with inflammation  | Diagnosis     | ICD-10-CM |
| I83.2   | Varicose veins of lower extremities with both ulcer and inflammation  | Diagnosis     | ICD-10-CM |
| I83.20  | Varicose veins of unspecified lower extremity with both ulcer and inflammation                                  | Diagnosis     | ICD-10-CM |
| I83.201 | Varicose veins of unspecified lower extremity with both ulcer of thigh and inflammation                         | Diagnosis     | ICD-10-CM |
| I83.202 | Varicose veins of unspecified lower extremity with both ulcer of calf and inflammation                          | Diagnosis     | ICD-10-CM |
| I83.203 | Varicose veins of unspecified lower extremity with both ulcer of ankle and inflammation                         | Diagnosis     | ICD-10-CM |
| I83.204 | Varicose veins of unspecified lower extremity with both ulcer of heel and midfoot and inflammation              | Diagnosis     | ICD-10-CM |
| I83.205 | Varicose veins of unspecified lower extremity with both ulcer other part of foot and inflammation               | Diagnosis     | ICD-10-CM |
| I83.208 | Varicose veins of unspecified lower extremity with both ulcer of other part of lower extremity and inflammation | Diagnosis     | ICD-10-CM |
| I83.209 | Varicose veins of unspecified lower extremity with both ulcer of unspecified site and inflammation              | Diagnosis     | ICD-10-CM |
| I83.21  | Varicose veins of right lower extremity with both ulcer and inflammation  | Diagnosis     | ICD-10-CM |
| I83.211 | Varicose veins of right lower extremity with both ulcer of thigh and inflammation                               | Diagnosis     | ICD-10-CM |
| I83.212 | Varicose veins of right lower extremity with both ulcer of calf and inflammation                                | Diagnosis     | ICD-10-CM |
| I83.213 | Varicose veins of right lower extremity with both ulcer of ankle and inflammation                               | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| I83.214 | Varicose veins of right lower extremity with both ulcer of heel and midfoot and inflammation              | Diagnosis     | ICD-10-CM |
| I83.215 | Varicose veins of right lower extremity with both ulcer other part of foot and inflammation               | Diagnosis     | ICD-10-CM |
| I83.218 | Varicose veins of right lower extremity with both ulcer of other part of lower extremity and inflammation | Diagnosis     | ICD-10-CM |
| I83.219 | Varicose veins of right lower extremity with both ulcer of unspecified site and inflammation              | Diagnosis     | ICD-10-CM |
| I83.22  | Varicose veins of left lower extremity with both ulcer and inflammation                                   | Diagnosis     | ICD-10-CM |
| I83.221 | Varicose veins of left lower extremity with both ulcer of thigh and inflammation                          | Diagnosis     | ICD-10-CM |
| I83.222 | Varicose veins of left lower extremity with both ulcer of calf and inflammation                           | Diagnosis     | ICD-10-CM |
| I83.223 | Varicose veins of left lower extremity with both ulcer of ankle and inflammation                          | Diagnosis     | ICD-10-CM |
| I83.224 | Varicose veins of left lower extremity with both ulcer of heel and midfoot and inflammation               | Diagnosis     | ICD-10-CM |
| I83.225 | Varicose veins of left lower extremity with both ulcer other part of foot and inflammation                | Diagnosis     | ICD-10-CM |
| I83.228 | Varicose veins of left lower extremity with both ulcer of other part of lower extremity and inflammation  | Diagnosis     | ICD-10-CM |
| I83.229 | Varicose veins of left lower extremity with both ulcer of unspecified site and inflammation               | Diagnosis     | ICD-10-CM |
| I83.8   | Varicose veins of lower extremities with other complications  | Diagnosis     | ICD-10-CM |
| I83.81  | Varicose veins of lower extremities with pain   | Diagnosis     | ICD-10-CM |
| I83.811 | Varicose veins of right lower extremity with pain   | Diagnosis     | ICD-10-CM |
| I83.812 | Varicose veins of left lower extremity with pain  | Diagnosis     | ICD-10-CM |
| I83.813 | Varicose veins of bilateral lower extremities with pain   | Diagnosis     | ICD-10-CM |
| I83.819 | Varicose veins of unspecified lower extremity with pain   | Diagnosis     | ICD-10-CM |
| I83.89  | Varicose veins of lower extremities with other complications  | Diagnosis     | ICD-10-CM |
| I83.891 | Varicose veins of right lower extremity with other complications  | Diagnosis     | ICD-10-CM |
| I83.892 | Varicose veins of left lower extremity with other complications   | Diagnosis     | ICD-10-CM |
| I83.893 | Varicose veins of bilateral lower extremities with other complications                                    | Diagnosis     | ICD-10-CM |
| I83.899 | Varicose veins of unspecified lower extremity with other complications                                    | Diagnosis     | ICD-10-CM |
| I83.9   | Asymptomatic varicose veins of lower extremities  | Diagnosis     | ICD-10-CM |
| I83.90  | Asymptomatic varicose veins of unspecified lower extremity  | Diagnosis     | ICD-10-CM |
| I83.91  | Asymptomatic varicose veins of right lower extremity  | Diagnosis     | ICD-10-CM |
| I83.92  | Asymptomatic varicose veins of left lower extremity   | Diagnosis     | ICD-10-CM |
| I83.93  | Asymptomatic varicose veins of bilateral lower extremities  | Diagnosis     | ICD-10-CM |
| I85.0   | Esophageal varices  | Diagnosis     | ICD-10-CM |
| I85.00  | Esophageal varices without bleeding   | Diagnosis     | ICD-10-CM |
| I85.01  | Esophageal varices with bleeding  | Diagnosis     | ICD-10-CM |
| I85.1   | Secondary esophageal varices  | Diagnosis     | ICD-10-CM |
| I85.10  | Secondary esophageal varices without bleeding   | Diagnosis     | ICD-10-CM |
| I85.11  | Secondary esophageal varices with bleeding  | Diagnosis     | ICD-10-CM |
| I86.0   | Sublingual varices  | Diagnosis     | ICD-10-CM |
| I86.1   | Scrotal varices   | Diagnosis     | ICD-10-CM |
| I86.2   | Pelvic varices  | Diagnosis     | ICD-10-CM |
| I86.3   | Vulval varices  | Diagnosis     | ICD-10-CM |
| I86.4   | Gastric varices   | Diagnosis     | ICD-10-CM |
| I86.8   | Varicose veins of other specified sites   | Diagnosis     | ICD-10-CM |
| I87.0   | Postthrombotic syndrome   | Diagnosis     | ICD-10-CM |
| I87.00  | Postthrombotic syndrome without complications   | Diagnosis     | ICD-10-CM |
| I87.001 | Postthrombotic syndrome without complications of right lower extremity                                    | Diagnosis     | ICD-10-CM |
| I87.002 | Postthrombotic syndrome without complications of left lower extremity                                     | Diagnosis     | ICD-10-CM |
| I87.003 | Postthrombotic syndrome without complications of bilateral lower extremity                                | Diagnosis     | ICD-10-CM |
| I87.009 | Postthrombotic syndrome without complications of unspecified extremity                                    | Diagnosis     | ICD-10-CM |
| I87.01  | Postthrombotic syndrome with ulcer  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| I87.011 | Postthrombotic syndrome with ulcer of right lower extremity   | Diagnosis     | ICD-10-CM |
| I87.012 | Postthrombotic syndrome with ulcer of left lower extremity  | Diagnosis     | ICD-10-CM |
| I87.013 | Postthrombotic syndrome with ulcer of bilateral lower extremity                                     | Diagnosis     | ICD-10-CM |
| I87.019 | Postthrombotic syndrome with ulcer of unspecified lower extremity                                   | Diagnosis     | ICD-10-CM |
| I87.02  | Postthrombotic syndrome with inflammation   | Diagnosis     | ICD-10-CM |
| I87.021 | Postthrombotic syndrome with inflammation of right lower extremity                                  | Diagnosis     | ICD-10-CM |
| I87.022 | Postthrombotic syndrome with inflammation of left lower extremity                                   | Diagnosis     | ICD-10-CM |
| I87.023 | Postthrombotic syndrome with inflammation of bilateral lower extremity                              | Diagnosis     | ICD-10-CM |
| I87.029 | Postthrombotic syndrome with inflammation of unspecified lower extremity                            | Diagnosis     | ICD-10-CM |
| I87.03  | Postthrombotic syndrome with ulcer and inflammation   | Diagnosis     | ICD-10-CM |
| I87.031 | Postthrombotic syndrome with ulcer and inflammation of right lower extremity                        | Diagnosis     | ICD-10-CM |
| I87.032 | Postthrombotic syndrome with ulcer and inflammation of left lower extremity                         | Diagnosis     | ICD-10-CM |
| I87.033 | Postthrombotic syndrome with ulcer and inflammation of bilateral lower extremity                    | Diagnosis     | ICD-10-CM |
| I87.039 | Postthrombotic syndrome with ulcer and inflammation of unspecified lower extremity                  | Diagnosis     | ICD-10-CM |
| I87.09  | Postthrombotic syndrome with other complications  | Diagnosis     | ICD-10-CM |
| I87.091 | Postthrombotic syndrome with other complications of right lower extremity                           | Diagnosis     | ICD-10-CM |
| I87.092 | Postthrombotic syndrome with other complications of left lower extremity                            | Diagnosis     | ICD-10-CM |
| I87.093 | Postthrombotic syndrome with other complications of bilateral lower extremity                       | Diagnosis     | ICD-10-CM |
| I87.099 | Postthrombotic syndrome with other complications of unspecified lower extremity                     | Diagnosis     | ICD-10-CM |
| I87.1   | Compression of vein   | Diagnosis     | ICD-10-CM |
| I87.2   | Venous insufficiency (chronic) (peripheral)   | Diagnosis     | ICD-10-CM |
| I87.3   | Chronic venous hypertension (idiopathic)  | Diagnosis     | ICD-10-CM |
| I87.30  | Chronic venous hypertension (idiopathic) without complications                                      | Diagnosis     | ICD-10-CM |
| I87.301 | Chronic venous hypertension (idiopathic) without complications of right lower extremity             | Diagnosis     | ICD-10-CM |
| I87.302 | Chronic venous hypertension (idiopathic) without complications of left lower extremity              | Diagnosis     | ICD-10-CM |
| I87.303 | Chronic venous hypertension (idiopathic) without complications of bilateral lower extremity         | Diagnosis     | ICD-10-CM |
| I87.309 | Chronic venous hypertension (idiopathic) without complications of unspecified lower extremity       | Diagnosis     | ICD-10-CM |
| I87.31  | Chronic venous hypertension (idiopathic) with ulcer   | Diagnosis     | ICD-10-CM |
| I87.311 | Chronic venous hypertension (idiopathic) with ulcer of right lower extremity                        | Diagnosis     | ICD-10-CM |
| I87.312 | Chronic venous hypertension (idiopathic) with ulcer of left lower extremity                         | Diagnosis     | ICD-10-CM |
| I87.313 | Chronic venous hypertension (idiopathic) with ulcer of bilateral lower extremity                    | Diagnosis     | ICD-10-CM |
| I87.319 | Chronic venous hypertension (idiopathic) with ulcer of unspecified lower extremity                  | Diagnosis     | ICD-10-CM |
| I87.32  | Chronic venous hypertension (idiopathic) with inflammation  | Diagnosis     | ICD-10-CM |
| I87.321 | Chronic venous hypertension (idiopathic) with inflammation of right lower extremity                 | Diagnosis     | ICD-10-CM |
| I87.322 | Chronic venous hypertension (idiopathic) with inflammation of left lower extremity                  | Diagnosis     | ICD-10-CM |
| I87.323 | Chronic venous hypertension (idiopathic) with inflammation of bilateral lower extremity             | Diagnosis     | ICD-10-CM |
| I87.329 | Chronic venous hypertension (idiopathic) with inflammation of unspecified lower extremity           | Diagnosis     | ICD-10-CM |
| I87.33  | Chronic venous hypertension (idiopathic) with ulcer and inflammation                                | Diagnosis     | ICD-10-CM |
| I87.331 | Chronic venous hypertension (idiopathic) with ulcer and inflammation of right lower extremity       | Diagnosis     | ICD-10-CM |
| I87.332 | Chronic venous hypertension (idiopathic) with ulcer and inflammation of left lower extremity        | Diagnosis     | ICD-10-CM |
| I87.333 | Chronic venous hypertension (idiopathic) with ulcer and inflammation of bilateral lower extremity   | Diagnosis     | ICD-10-CM |
| I87.339 | Chronic venous hypertension (idiopathic) with ulcer and inflammation of unspecified lower extremity | Diagnosis     | ICD-10-CM |
| I87.39  | Chronic venous hypertension (idiopathic) with other complications                                   | Diagnosis     | ICD-10-CM |
| I87.391 | Chronic venous hypertension (idiopathic) with other complications of right lower extremity          | Diagnosis     | ICD-10-CM |
| I87.392 | Chronic venous hypertension (idiopathic) with other complications of left lower extremity           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| I87.393 | Chronic venous hypertension (idiopathic) with other complications of bilateral lower extremity                                    | Diagnosis     | ICD-10-CM |
| I87.399 | Chronic venous hypertension (idiopathic) with other complications of unspecified lower extremity                                  | Diagnosis     | ICD-10-CM |
| I87.8   | Other specified disorders of veins  | Diagnosis     | ICD-10-CM |
| I87.9   | Disorder of vein, unspecified   | Diagnosis     | ICD-10-CM |
| I88.0   | Nonspecific mesenteric lymphadenitis  | Diagnosis     | ICD-10-CM |
| I88.1   | Chronic lymphadenitis, except mesenteric  | Diagnosis     | ICD-10-CM |
| I88.8   | Other nonspecific lymphadenitis   | Diagnosis     | ICD-10-CM |
| I88.9   | Nonspecific lymphadenitis, unspecified  | Diagnosis     | ICD-10-CM |
| I89.0   | Lymphedema, not elsewhere classified  | Diagnosis     | ICD-10-CM |
| I89.1   | Lymphangitis  | Diagnosis     | ICD-10-CM |
| I89.8   | Other specified noninfective disorders of lymphatic vessels and lymph nodes   | Diagnosis     | ICD-10-CM |
| I89.9   | Noninfective disorder of lymphatic vessels and lymph nodes, unspecified   | Diagnosis     | ICD-10-CM |
| I95.0   | Idiopathic hypotension  | Diagnosis     | ICD-10-CM |
| I95.1   | Orthostatic hypotension   | Diagnosis     | ICD-10-CM |
| I95.2   | Hypotension due to drugs  | Diagnosis     | ICD-10-CM |
| I95.3   | Hypotension of hemodialysis   | Diagnosis     | ICD-10-CM |
| I95.8   | Other hypotension   | Diagnosis     | ICD-10-CM |
| I95.81  | Postprocedural hypotension  | Diagnosis     | ICD-10-CM |
| I95.89  | Other hypotension   | Diagnosis     | ICD-10-CM |
| I95.9   | Hypotension, unspecified  | Diagnosis     | ICD-10-CM |
| I97.0   | Postcardiotomy syndrome   | Diagnosis     | ICD-10-CM |
| I97.1   | Other postprocedural cardiac functional disturbances  | Diagnosis     | ICD-10-CM |
| I97.11  | Postprocedural cardiac insufficiency  | Diagnosis     | ICD-10-CM |
| I97.110 | Postprocedural cardiac insufficiency following cardiac surgery  | Diagnosis     | ICD-10-CM |
| I97.111 | Postprocedural cardiac insufficiency following other surgery  | Diagnosis     | ICD-10-CM |
| I97.12  | Postprocedural cardiac arrest   | Diagnosis     | ICD-10-CM |
| I97.120 | Postprocedural cardiac arrest following cardiac surgery   | Diagnosis     | ICD-10-CM |
| I97.121 | Postprocedural cardiac arrest following other surgery   | Diagnosis     | ICD-10-CM |
| I97.13  | Postprocedural heart failure  | Diagnosis     | ICD-10-CM |
| I97.130 | Postprocedural heart failure following cardiac surgery  | Diagnosis     | ICD-10-CM |
| I97.131 | Postprocedural heart failure following other surgery  | Diagnosis     | ICD-10-CM |
| I97.19  | Other postprocedural cardiac functional disturbances  | Diagnosis     | ICD-10-CM |
| I97.190 | Other postprocedural cardiac functional disturbances following cardiac surgery  | Diagnosis     | ICD-10-CM |
| I97.191 | Other postprocedural cardiac functional disturbances following other surgery  | Diagnosis     | ICD-10-CM |
| I97.2   | Postmastectomy lymphedema syndrome  | Diagnosis     | ICD-10-CM |
| I97.3   | Postprocedural hypertension   | Diagnosis     | ICD-10-CM |
| I97.4   | Intraoperative hemorrhage and hematoma of a circulatory system organ or structure complicating a procedure                        | Diagnosis     | ICD-10-CM |
| I97.41  | Intraoperative hemorrhage and hematoma of a circulatory system organ or structure complicating a circulatory system procedure     | Diagnosis     | ICD-10-CM |
| I97.410 | Intraoperative hemorrhage and hematoma of a circulatory system organ or structure complicating a cardiac catheterization          | Diagnosis     | ICD-10-CM |
| I97.411 | Intraoperative hemorrhage and hematoma of a circulatory system organ or structure complicating a cardiac bypass                   | Diagnosis     | ICD-10-CM |
| I97.418 | Intraoperative hemorrhage and hematoma of a circulatory system organ or structure complicating other circulatory system procedure | Diagnosis     | ICD-10-CM |
| I97.42  | Intraoperative hemorrhage and hematoma of a circulatory system organ or structure complicating other procedure                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| I97.5   | Accidental puncture and laceration of a circulatory system organ or structure during a procedure                        | Diagnosis     | ICD-10-CM |
| I97.51  | Accidental puncture and laceration of a circulatory system organ or structure during a circulatory system procedure     | Diagnosis     | ICD-10-CM |
| I97.52  | Accidental puncture and laceration of a circulatory system organ or structure during other procedure                    | Diagnosis     | ICD-10-CM |
| I97.6   | Postprocedural hemorrhage, hematoma and seroma of a circulatory system organ or structure following a procedure         | Diagnosis     | ICD-10-CM |
| I97.61  | Postprocedural hemorrhage of a circulatory system organ or structure following a circulatory system procedure           | Diagnosis     | ICD-10-CM |
| I97.610 | Postprocedural hemorrhage of a circulatory system organ or structure following a cardiac catheterization                | Diagnosis     | ICD-10-CM |
| I97.611 | Postprocedural hemorrhage of a circulatory system organ or structure following cardiac bypass                           | Diagnosis     | ICD-10-CM |
| I97.618 | Postprocedural hemorrhage of a circulatory system organ or structure following other circulatory system procedure       | Diagnosis     | ICD-10-CM |
| I97.62  | Postprocedural hemorrhage, hematoma and seroma of a circulatory system organ or structure following other procedure     | Diagnosis     | ICD-10-CM |
| I97.620 | Postprocedural hemorrhage of a circulatory system organ or structure following other procedure                          | Diagnosis     | ICD-10-CM |
| I97.621 | Postprocedural hematoma of a circulatory system organ or structure following other procedure                            | Diagnosis     | ICD-10-CM |
| I97.622 | Postprocedural seroma of a circulatory system organ or structure following other procedure                              | Diagnosis     | ICD-10-CM |
| I97.63  | Postprocedural hematoma of a circulatory system organ or structure following a circulatory system procedure             | Diagnosis     | ICD-10-CM |
| I97.630 | Postprocedural hematoma of a circulatory system organ or structure following a cardiac catheterization                  | Diagnosis     | ICD-10-CM |
| I97.631 | Postprocedural hematoma of a circulatory system organ or structure following cardiac bypass                             | Diagnosis     | ICD-10-CM |
| I97.638 | Postprocedural hematoma of a circulatory system organ or structure following other circulatory system procedure         | Diagnosis     | ICD-10-CM |
| I97.64  | Postprocedural seroma of a circulatory system organ or structure following a circulatory system procedure               | Diagnosis     | ICD-10-CM |
| I97.640 | Postprocedural seroma of a circulatory system organ or structure following a cardiac catheterization                    | Diagnosis     | ICD-10-CM |
| I97.641 | Postprocedural seroma of a circulatory system organ or structure following cardiac bypass                               | Diagnosis     | ICD-10-CM |
| I97.648 | Postprocedural seroma of a circulatory system organ or structure following other circulatory system procedure           | Diagnosis     | ICD-10-CM |
| I97.7   | Intraoperative cardiac functional disturbances  | Diagnosis     | ICD-10-CM |
| I97.71  | Intraoperative cardiac arrest   | Diagnosis     | ICD-10-CM |
| I97.710 | Intraoperative cardiac arrest during cardiac surgery  | Diagnosis     | ICD-10-CM |
| I97.711 | Intraoperative cardiac arrest during other surgery  | Diagnosis     | ICD-10-CM |
| I97.79  | Other intraoperative cardiac functional disturbances  | Diagnosis     | ICD-10-CM |
| I97.790 | Other intraoperative cardiac functional disturbances during cardiac surgery   | Diagnosis     | ICD-10-CM |
| I97.791 | Other intraoperative cardiac functional disturbances during other surgery   | Diagnosis     | ICD-10-CM |
| I97.8   | Other intraoperative and postprocedural complications and disorders of the circulatory system, not elsewhere classified | Diagnosis     | ICD-10-CM |
| I97.81  | Intraoperative cerebrovascular infarction   | Diagnosis     | ICD-10-CM |
| I97.810 | Intraoperative cerebrovascular infarction during cardiac surgery  | Diagnosis     | ICD-10-CM |
| I97.811 | Intraoperative cerebrovascular infarction during other surgery  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code                         | Description  | Code Category | Code Type |
|------------------------------|--|---------------|-----------|
| I97.82                       | Postprocedural cerebrovascular infarction  | Diagnosis     | ICD-10-CM |
| I97.820                      | Postprocedural cerebrovascular infarction following cardiac surgery                                  | Diagnosis     | ICD-10-CM |
| I97.821                      | Postprocedural cerebrovascular infarction following other surgery                                    | Diagnosis     | ICD-10-CM |
| I97.88                       | Other intraoperative complications of the circulatory system, not elsewhere classified               | Diagnosis     | ICD-10-CM |
| I97.89                       | Other postprocedural complications and disorders of the circulatory system, not elsewhere classified | Diagnosis     | ICD-10-CM |
| I99.8                        | Other disorder of circulatory system   | Diagnosis     | ICD-10-CM |
| I99.9                        | Unspecified disorder of circulatory system   | Diagnosis     | ICD-10-CM |
| <b>Chromosomal Anomalies</b> |  |               |           |
| Q90.0                        | Trisomy 21, nonmosaicism (meiotic nondisjunction)  | Diagnosis     | ICD-10-CM |
| Q90.1                        | Trisomy 21, mosaicism (mitotic nondisjunction)   | Diagnosis     | ICD-10-CM |
| Q90.2                        | Trisomy 21, translocation  | Diagnosis     | ICD-10-CM |
| Q90.9                        | Down syndrome, unspecified   | Diagnosis     | ICD-10-CM |
| Q91.0                        | Trisomy 18, nonmosaicism (meiotic nondisjunction)  | Diagnosis     | ICD-10-CM |
| Q91.1                        | Trisomy 18, mosaicism (mitotic nondisjunction)   | Diagnosis     | ICD-10-CM |
| Q91.2                        | Trisomy 18, translocation  | Diagnosis     | ICD-10-CM |
| Q91.3                        | Trisomy 18, unspecified  | Diagnosis     | ICD-10-CM |
| Q91.4                        | Trisomy 13, nonmosaicism (meiotic nondisjunction)  | Diagnosis     | ICD-10-CM |
| Q91.5                        | Trisomy 13, mosaicism (mitotic nondisjunction)   | Diagnosis     | ICD-10-CM |
| Q91.6                        | Trisomy 13, translocation  | Diagnosis     | ICD-10-CM |
| Q91.7                        | Trisomy 13, unspecified  | Diagnosis     | ICD-10-CM |
| Q92.0                        | Whole chromosome trisomy, nonmosaicism (meiotic nondisjunction)                                      | Diagnosis     | ICD-10-CM |
| Q92.1                        | Whole chromosome trisomy, mosaicism (mitotic nondisjunction)   | Diagnosis     | ICD-10-CM |
| Q92.2                        | Partial trisomy  | Diagnosis     | ICD-10-CM |
| Q92.5                        | Duplications with other complex rearrangements   | Diagnosis     | ICD-10-CM |
| Q92.6                        | Marker chromosomes   | Diagnosis     | ICD-10-CM |
| Q92.61                       | Marker chromosomes in normal individual  | Diagnosis     | ICD-10-CM |
| Q92.62                       | Marker chromosomes in abnormal individual  | Diagnosis     | ICD-10-CM |
| Q92.7                        | Triploidy and polyploidy   | Diagnosis     | ICD-10-CM |
| Q92.8                        | Other specified trisomies and partial trisomies of autosomes   | Diagnosis     | ICD-10-CM |
| Q92.9                        | Trisomy and partial trisomy of autosomes, unspecified  | Diagnosis     | ICD-10-CM |
| Q93.0                        | Whole chromosome monosomy, nonmosaicism (meiotic nondisjunction)                                     | Diagnosis     | ICD-10-CM |
| Q93.1                        | Whole chromosome monosomy, mosaicism (mitotic nondisjunction)  | Diagnosis     | ICD-10-CM |
| Q93.2                        | Chromosome replaced with ring, dicentric or isochromosome  | Diagnosis     | ICD-10-CM |
| Q93.3                        | Deletion of short arm of chromosome 4  | Diagnosis     | ICD-10-CM |
| Q93.4                        | Deletion of short arm of chromosome 5  | Diagnosis     | ICD-10-CM |
| Q93.5                        | Other deletions of part of a chromosome  | Diagnosis     | ICD-10-CM |
| Q93.51                       | Angelman syndrome  | Diagnosis     | ICD-10-CM |
| Q93.59                       | Other deletions of part of a chromosome  | Diagnosis     | ICD-10-CM |
| Q93.7                        | Deletions with other complex rearrangements  | Diagnosis     | ICD-10-CM |
| Q93.8                        | Other deletions from the autosomes   | Diagnosis     | ICD-10-CM |
| Q93.81                       | Velo-cardio-facial syndrome  | Diagnosis     | ICD-10-CM |
| Q93.82                       | Williams syndrome  | Diagnosis     | ICD-10-CM |
| Q93.88                       | Other microdeletions   | Diagnosis     | ICD-10-CM |
| Q93.89                       | Other deletions from the autosomes   | Diagnosis     | ICD-10-CM |
| Q93.9                        | Deletion from autosomes, unspecified   | Diagnosis     | ICD-10-CM |
| Q95.0                        | Balanced translocation and insertion in normal individual  | Diagnosis     | ICD-10-CM |
| Q95.1                        | Chromosome inversion in normal individual  | Diagnosis     | ICD-10-CM |
| Q95.2                        | Balanced autosomal rearrangement in abnormal individual  | Diagnosis     | ICD-10-CM |
| Q95.3                        | Balanced sex/autosomal rearrangement in abnormal individual  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code                            | Description  | Code Category | Code Type |
|---------------------------------|--|---------------|-----------|
| Q95.5                           | Individual with autosomal fragile site                           | Diagnosis     | ICD-10-CM |
| Q95.8                           | Other balanced rearrangements and structural markers             | Diagnosis     | ICD-10-CM |
| Q95.9                           | Balanced rearrangement and structural marker, unspecified        | Diagnosis     | ICD-10-CM |
| Q96.0                           | Karyotype 45, X  | Diagnosis     | ICD-10-CM |
| Q96.1                           | Karyotype 46, X iso (Xq)   | Diagnosis     | ICD-10-CM |
| Q96.2                           | Karyotype 46, X with abnormal sex chromosome, except iso (Xq)    | Diagnosis     | ICD-10-CM |
| Q96.3                           | Mosaicism, 45, X/46, XX or XY                                    | Diagnosis     | ICD-10-CM |
| Q96.4                           | Mosaicism, 45, X/other cell line(s) with abnormal sex chromosome | Diagnosis     | ICD-10-CM |
| Q96.8                           | Other variants of Turner's syndrome                              | Diagnosis     | ICD-10-CM |
| Q96.9                           | Turner's syndrome, unspecified                                   | Diagnosis     | ICD-10-CM |
| Q97.0                           | Karyotype 47, XXX  | Diagnosis     | ICD-10-CM |
| Q97.1                           | Female with more than three X chromosomes                        | Diagnosis     | ICD-10-CM |
| Q97.2                           | Mosaicism, lines with various numbers of X chromosomes           | Diagnosis     | ICD-10-CM |
| Q97.3                           | Female with 46, XY karyotype                                     | Diagnosis     | ICD-10-CM |
| Q97.8                           | Other specified sex chromosome abnormalities, female phenotype   | Diagnosis     | ICD-10-CM |
| Q97.9                           | Sex chromosome abnormality, female phenotype, unspecified        | Diagnosis     | ICD-10-CM |
| Q98.0                           | Klinefelter syndrome karyotype 47, XXY                           | Diagnosis     | ICD-10-CM |
| Q98.1                           | Klinefelter syndrome, male with more than two X chromosomes      | Diagnosis     | ICD-10-CM |
| Q98.3                           | Other male with 46, XX karyotype                                 | Diagnosis     | ICD-10-CM |
| Q98.4                           | Klinefelter syndrome, unspecified                                | Diagnosis     | ICD-10-CM |
| Q98.5                           | Karyotype 47, XYY  | Diagnosis     | ICD-10-CM |
| Q98.6                           | Male with structurally abnormal sex chromosome                   | Diagnosis     | ICD-10-CM |
| Q98.7                           | Male with sex chromosome mosaicism                               | Diagnosis     | ICD-10-CM |
| Q98.8                           | Other specified sex chromosome abnormalities, male phenotype     | Diagnosis     | ICD-10-CM |
| Q98.9                           | Sex chromosome abnormality, male phenotype, unspecified          | Diagnosis     | ICD-10-CM |
| Q99.0                           | Chimera 46, XX/46, XY  | Diagnosis     | ICD-10-CM |
| Q99.1                           | 46, XX true hermaphrodite  | Diagnosis     | ICD-10-CM |
| Q99.2                           | Fragile X chromosome   | Diagnosis     | ICD-10-CM |
| Q99.8                           | Other specified chromosome abnormalities                         | Diagnosis     | ICD-10-CM |
| Q99.9                           | Chromosomal abnormality, unspecified                             | Diagnosis     | ICD-10-CM |
| <b>Conduct Disorder</b>         |  |               |           |
| F91.0                           | Conduct disorder confined to family context                      | Diagnosis     | ICD-10-CM |
| F91.1                           | Conduct disorder, childhood-onset type                           | Diagnosis     | ICD-10-CM |
| F91.2                           | Conduct disorder, adolescent-onset type                          | Diagnosis     | ICD-10-CM |
| F91.3                           | Oppositional defiant disorder                                    | Diagnosis     | ICD-10-CM |
| F91.8                           | Other conduct disorders  | Diagnosis     | ICD-10-CM |
| F91.9                           | Conduct disorder, unspecified                                    | Diagnosis     | ICD-10-CM |
| <b>Congenital Malformations</b> |  |               |           |
| Q00.0                           | Anencephaly  | Diagnosis     | ICD-10-CM |
| Q00.1                           | Craniorachischisis   | Diagnosis     | ICD-10-CM |
| Q00.2                           | Iniencephaly   | Diagnosis     | ICD-10-CM |
| Q01.0                           | Frontal encephalocele  | Diagnosis     | ICD-10-CM |
| Q01.1                           | Nasofrontal encephalocele  | Diagnosis     | ICD-10-CM |
| Q01.2                           | Occipital encephalocele  | Diagnosis     | ICD-10-CM |
| Q01.8                           | Encephalocele of other sites                                     | Diagnosis     | ICD-10-CM |
| Q01.9                           | Encephalocele, unspecified                                       | Diagnosis     | ICD-10-CM |
| Q03.0                           | Malformations of aqueduct of Sylvius                             | Diagnosis     | ICD-10-CM |
| Q03.1                           | Atresia of foramina of Magendie and Luschka                      | Diagnosis     | ICD-10-CM |
| Q03.8                           | Other congenital hydrocephalus                                   | Diagnosis     | ICD-10-CM |
| Q03.9                           | Congenital hydrocephalus, unspecified                            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description  | Code Category | Code Type |
|--------|--|---------------|-----------|
| Q04.0  | Congenital malformations of corpus callosum                  | Diagnosis     | ICD-10-CM |
| Q04.1  | Arhinencephaly   | Diagnosis     | ICD-10-CM |
| Q04.2  | Holoprosencephaly  | Diagnosis     | ICD-10-CM |
| Q04.3  | Other reduction deformities of brain                         | Diagnosis     | ICD-10-CM |
| Q04.4  | Septo-optic dysplasia of brain                               | Diagnosis     | ICD-10-CM |
| Q04.5  | Megalencephaly   | Diagnosis     | ICD-10-CM |
| Q04.6  | Congenital cerebral cysts                                    | Diagnosis     | ICD-10-CM |
| Q04.8  | Other specified congenital malformations of brain            | Diagnosis     | ICD-10-CM |
| Q04.9  | Congenital malformation of brain, unspecified                | Diagnosis     | ICD-10-CM |
| Q05.0  | Cervical spina bifida with hydrocephalus                     | Diagnosis     | ICD-10-CM |
| Q05.1  | Thoracic spina bifida with hydrocephalus                     | Diagnosis     | ICD-10-CM |
| Q05.2  | Lumbar spina bifida with hydrocephalus                       | Diagnosis     | ICD-10-CM |
| Q05.3  | Sacral spina bifida with hydrocephalus                       | Diagnosis     | ICD-10-CM |
| Q05.4  | Unspecified spina bifida with hydrocephalus                  | Diagnosis     | ICD-10-CM |
| Q05.5  | Cervical spina bifida without hydrocephalus                  | Diagnosis     | ICD-10-CM |
| Q05.6  | Thoracic spina bifida without hydrocephalus                  | Diagnosis     | ICD-10-CM |
| Q05.7  | Lumbar spina bifida without hydrocephalus                    | Diagnosis     | ICD-10-CM |
| Q05.8  | Sacral spina bifida without hydrocephalus                    | Diagnosis     | ICD-10-CM |
| Q05.9  | Spina bifida, unspecified                                    | Diagnosis     | ICD-10-CM |
| Q06.0  | Amyelia  | Diagnosis     | ICD-10-CM |
| Q06.1  | Hypoplasia and dysplasia of spinal cord                      | Diagnosis     | ICD-10-CM |
| Q06.2  | Diastatomyelia   | Diagnosis     | ICD-10-CM |
| Q06.3  | Other congenital cauda equina malformations                  | Diagnosis     | ICD-10-CM |
| Q06.4  | Hydromyelia  | Diagnosis     | ICD-10-CM |
| Q06.8  | Other specified congenital malformations of spinal cord      | Diagnosis     | ICD-10-CM |
| Q06.9  | Congenital malformation of spinal cord, unspecified          | Diagnosis     | ICD-10-CM |
| Q07.0  | Arnold-Chiari syndrome                                       | Diagnosis     | ICD-10-CM |
| Q07.00 | Arnold-Chiari syndrome without spina bifida or hydrocephalus | Diagnosis     | ICD-10-CM |
| Q07.01 | Arnold-Chiari syndrome with spina bifida                     | Diagnosis     | ICD-10-CM |
| Q07.02 | Arnold-Chiari syndrome with hydrocephalus                    | Diagnosis     | ICD-10-CM |
| Q07.03 | Arnold-Chiari syndrome with spina bifida and hydrocephalus   | Diagnosis     | ICD-10-CM |
| Q07.8  | Other specified congenital malformations of nervous system   | Diagnosis     | ICD-10-CM |
| Q07.9  | Congenital malformation of nervous system, unspecified       | Diagnosis     | ICD-10-CM |
| Q10.0  | Congenital ptosis  | Diagnosis     | ICD-10-CM |
| Q10.1  | Congenital ectropion   | Diagnosis     | ICD-10-CM |
| Q10.2  | Congenital entropion   | Diagnosis     | ICD-10-CM |
| Q10.3  | Other congenital malformations of eyelid                     | Diagnosis     | ICD-10-CM |
| Q10.4  | Absence and agenesis of lacrimal apparatus                   | Diagnosis     | ICD-10-CM |
| Q10.5  | Congenital stenosis and stricture of lacrimal duct           | Diagnosis     | ICD-10-CM |
| Q10.6  | Other congenital malformations of lacrimal apparatus         | Diagnosis     | ICD-10-CM |
| Q10.7  | Congenital malformation of orbit                             | Diagnosis     | ICD-10-CM |
| Q11.0  | Cystic eyeball   | Diagnosis     | ICD-10-CM |
| Q11.1  | Other anophthalmos   | Diagnosis     | ICD-10-CM |
| Q11.2  | Microphthalmos   | Diagnosis     | ICD-10-CM |
| Q11.3  | Macrophthalmos   | Diagnosis     | ICD-10-CM |
| Q12.0  | Congenital cataract  | Diagnosis     | ICD-10-CM |
| Q12.1  | Congenital displaced lens                                    | Diagnosis     | ICD-10-CM |
| Q12.2  | Coloboma of lens   | Diagnosis     | ICD-10-CM |
| Q12.3  | Congenital aphakia   | Diagnosis     | ICD-10-CM |
| Q12.4  | Spherophakia   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description   | Code Category | Code Type |
|--------|---|---------------|-----------|
| Q12.8  | Other congenital lens malformations                                       | Diagnosis     | ICD-10-CM |
| Q12.9  | Congenital lens malformation, unspecified                                 | Diagnosis     | ICD-10-CM |
| Q13.0  | Coloboma of iris  | Diagnosis     | ICD-10-CM |
| Q13.1  | Absence of iris   | Diagnosis     | ICD-10-CM |
| Q13.2  | Other congenital malformations of iris                                    | Diagnosis     | ICD-10-CM |
| Q13.3  | Congenital corneal opacity  | Diagnosis     | ICD-10-CM |
| Q13.4  | Other congenital corneal malformations                                    | Diagnosis     | ICD-10-CM |
| Q13.5  | Blue sclera   | Diagnosis     | ICD-10-CM |
| Q13.8  | Other congenital malformations of anterior segment of eye                 | Diagnosis     | ICD-10-CM |
| Q13.81 | Rieger's anomaly  | Diagnosis     | ICD-10-CM |
| Q13.89 | Other congenital malformations of anterior segment of eye                 | Diagnosis     | ICD-10-CM |
| Q13.9  | Congenital malformation of anterior segment of eye, unspecified           | Diagnosis     | ICD-10-CM |
| Q14.0  | Congenital malformation of vitreous humor                                 | Diagnosis     | ICD-10-CM |
| Q14.1  | Congenital malformation of retina   | Diagnosis     | ICD-10-CM |
| Q14.2  | Congenital malformation of optic disc                                     | Diagnosis     | ICD-10-CM |
| Q14.3  | Congenital malformation of choroid  | Diagnosis     | ICD-10-CM |
| Q14.8  | Other congenital malformations of posterior segment of eye                | Diagnosis     | ICD-10-CM |
| Q14.9  | Congenital malformation of posterior segment of eye, unspecified          | Diagnosis     | ICD-10-CM |
| Q15.0  | Congenital glaucoma   | Diagnosis     | ICD-10-CM |
| Q15.8  | Other specified congenital malformations of eye                           | Diagnosis     | ICD-10-CM |
| Q15.9  | Congenital malformation of eye, unspecified                               | Diagnosis     | ICD-10-CM |
| Q16.0  | Congenital absence of (ear) auricle                                       | Diagnosis     | ICD-10-CM |
| Q16.1  | Congenital absence, atresia and stricture of auditory canal (external)    | Diagnosis     | ICD-10-CM |
| Q16.2  | Absence of eustachian tube  | Diagnosis     | ICD-10-CM |
| Q16.3  | Congenital malformation of ear ossicles                                   | Diagnosis     | ICD-10-CM |
| Q16.4  | Other congenital malformations of middle ear                              | Diagnosis     | ICD-10-CM |
| Q16.5  | Congenital malformation of inner ear                                      | Diagnosis     | ICD-10-CM |
| Q16.9  | Congenital malformation of ear causing impairment of hearing, unspecified | Diagnosis     | ICD-10-CM |
| Q17.0  | Accessory auricle   | Diagnosis     | ICD-10-CM |
| Q17.1  | Macrotia  | Diagnosis     | ICD-10-CM |
| Q17.2  | Microtia  | Diagnosis     | ICD-10-CM |
| Q17.3  | Other misshapen ear   | Diagnosis     | ICD-10-CM |
| Q17.4  | Misplaced ear   | Diagnosis     | ICD-10-CM |
| Q17.5  | Prominent ear   | Diagnosis     | ICD-10-CM |
| Q17.8  | Other specified congenital malformations of ear                           | Diagnosis     | ICD-10-CM |
| Q17.9  | Congenital malformation of ear, unspecified                               | Diagnosis     | ICD-10-CM |
| Q18.0  | Sinus, fistula and cyst of branchial cleft                                | Diagnosis     | ICD-10-CM |
| Q18.1  | Preauricular sinus and cyst   | Diagnosis     | ICD-10-CM |
| Q18.2  | Other branchial cleft malformations                                       | Diagnosis     | ICD-10-CM |
| Q18.3  | Webbing of neck   | Diagnosis     | ICD-10-CM |
| Q18.4  | Macrostomia   | Diagnosis     | ICD-10-CM |
| Q18.5  | Microstomia   | Diagnosis     | ICD-10-CM |
| Q18.6  | Macrocheilia  | Diagnosis     | ICD-10-CM |
| Q18.7  | Microcheilia  | Diagnosis     | ICD-10-CM |
| Q18.8  | Other specified congenital malformations of face and neck                 | Diagnosis     | ICD-10-CM |
| Q18.9  | Congenital malformation of face and neck, unspecified                     | Diagnosis     | ICD-10-CM |
| Q20.0  | Common arterial trunk   | Diagnosis     | ICD-10-CM |
| Q20.1  | Double outlet right ventricle   | Diagnosis     | ICD-10-CM |
| Q20.2  | Double outlet left ventricle  | Diagnosis     | ICD-10-CM |
| Q20.3  | Discordant ventriculoarterial connection                                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description  | Code Category | Code Type |
|--------|--|---------------|-----------|
| Q20.4  | Double inlet ventricle   | Diagnosis     | ICD-10-CM |
| Q20.5  | Discordant atrioventricular connection                                   | Diagnosis     | ICD-10-CM |
| Q20.6  | Isomerism of atrial appendages   | Diagnosis     | ICD-10-CM |
| Q20.8  | Other congenital malformations of cardiac chambers and connections       | Diagnosis     | ICD-10-CM |
| Q20.9  | Congenital malformation of cardiac chambers and connections, unspecified | Diagnosis     | ICD-10-CM |
| Q21.0  | Ventricular septal defect  | Diagnosis     | ICD-10-CM |
| Q21.1  | Atrial septal defect   | Diagnosis     | ICD-10-CM |
| Q21.10 | Atrial septal defect, unspecified  | Diagnosis     | ICD-10-CM |
| Q21.11 | Secundum atrial septal defect  | Diagnosis     | ICD-10-CM |
| Q21.12 | Patent foramen ovale   | Diagnosis     | ICD-10-CM |
| Q21.13 | Coronary sinus atrial septal defect                                      | Diagnosis     | ICD-10-CM |
| Q21.14 | Superior sinus venosus atrial septal defect                              | Diagnosis     | ICD-10-CM |
| Q21.15 | Inferior sinus venosus atrial septal defect                              | Diagnosis     | ICD-10-CM |
| Q21.16 | Sinus venosus atrial septal defect, unspecified                          | Diagnosis     | ICD-10-CM |
| Q21.19 | Other specified atrial septal defect                                     | Diagnosis     | ICD-10-CM |
| Q21.2  | Atrioventricular septal defect   | Diagnosis     | ICD-10-CM |
| Q21.20 | Atrioventricular septal defect, unspecified as to partial or complete    | Diagnosis     | ICD-10-CM |
| Q21.21 | Partial atrioventricular septal defect                                   | Diagnosis     | ICD-10-CM |
| Q21.22 | Transitional atrioventricular septal defect                              | Diagnosis     | ICD-10-CM |
| Q21.23 | Complete atrioventricular septal defect                                  | Diagnosis     | ICD-10-CM |
| Q21.3  | Tetralogy of Fallot  | Diagnosis     | ICD-10-CM |
| Q21.4  | Aortopulmonary septal defect   | Diagnosis     | ICD-10-CM |
| Q21.8  | Other congenital malformations of cardiac septa                          | Diagnosis     | ICD-10-CM |
| Q21.9  | Congenital malformation of cardiac septum, unspecified                   | Diagnosis     | ICD-10-CM |
| Q22.0  | Pulmonary valve atresia  | Diagnosis     | ICD-10-CM |
| Q22.1  | Congenital pulmonary valve stenosis                                      | Diagnosis     | ICD-10-CM |
| Q22.2  | Congenital pulmonary valve insufficiency                                 | Diagnosis     | ICD-10-CM |
| Q22.3  | Other congenital malformations of pulmonary valve                        | Diagnosis     | ICD-10-CM |
| Q22.4  | Congenital tricuspid stenosis  | Diagnosis     | ICD-10-CM |
| Q22.5  | Ebstein's anomaly  | Diagnosis     | ICD-10-CM |
| Q22.6  | Hypoplastic right heart syndrome   | Diagnosis     | ICD-10-CM |
| Q22.8  | Other congenital malformations of tricuspid valve                        | Diagnosis     | ICD-10-CM |
| Q22.9  | Congenital malformation of tricuspid valve, unspecified                  | Diagnosis     | ICD-10-CM |
| Q23.0  | Congenital stenosis of aortic valve                                      | Diagnosis     | ICD-10-CM |
| Q23.1  | Congenital insufficiency of aortic valve                                 | Diagnosis     | ICD-10-CM |
| Q23.2  | Congenital mitral stenosis   | Diagnosis     | ICD-10-CM |
| Q23.3  | Congenital mitral insufficiency  | Diagnosis     | ICD-10-CM |
| Q23.4  | Hypoplastic left heart syndrome  | Diagnosis     | ICD-10-CM |
| Q23.8  | Other congenital malformations of aortic and mitral valves               | Diagnosis     | ICD-10-CM |
| Q23.9  | Congenital malformation of aortic and mitral valves, unspecified         | Diagnosis     | ICD-10-CM |
| Q24.0  | Dextrocardia   | Diagnosis     | ICD-10-CM |
| Q24.1  | Levocardia   | Diagnosis     | ICD-10-CM |
| Q24.2  | Cor triatriatum  | Diagnosis     | ICD-10-CM |
| Q24.3  | Pulmonary infundibular stenosis  | Diagnosis     | ICD-10-CM |
| Q24.4  | Congenital subaortic stenosis  | Diagnosis     | ICD-10-CM |
| Q24.5  | Malformation of coronary vessels   | Diagnosis     | ICD-10-CM |
| Q24.6  | Congenital heart block   | Diagnosis     | ICD-10-CM |
| Q24.8  | Other specified congenital malformations of heart                        | Diagnosis     | ICD-10-CM |
| Q24.9  | Congenital malformation of heart, unspecified                            | Diagnosis     | ICD-10-CM |
| Q25.0  | Patent ductus arteriosus   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description  | Code Category | Code Type |
|--------|--|---------------|-----------|
| Q25.1  | Coarctation of aorta   | Diagnosis     | ICD-10-CM |
| Q25.2  | Atresia of aorta   | Diagnosis     | ICD-10-CM |
| Q25.21 | Interruption of aortic arch  | Diagnosis     | ICD-10-CM |
| Q25.29 | Other atresia of aorta   | Diagnosis     | ICD-10-CM |
| Q25.3  | Supravalvular aortic stenosis  | Diagnosis     | ICD-10-CM |
| Q25.4  | Other congenital malformations of aorta                                | Diagnosis     | ICD-10-CM |
| Q25.40 | Congenital malformation of aorta unspecified                           | Diagnosis     | ICD-10-CM |
| Q25.41 | Absence and aplasia of aorta   | Diagnosis     | ICD-10-CM |
| Q25.42 | Hypoplasia of aorta  | Diagnosis     | ICD-10-CM |
| Q25.43 | Congenital aneurysm of aorta   | Diagnosis     | ICD-10-CM |
| Q25.44 | Congenital dilation of aorta   | Diagnosis     | ICD-10-CM |
| Q25.45 | Double aortic arch   | Diagnosis     | ICD-10-CM |
| Q25.46 | Tortuous aortic arch   | Diagnosis     | ICD-10-CM |
| Q25.47 | Right aortic arch  | Diagnosis     | ICD-10-CM |
| Q25.48 | Anomalous origin of subclavian artery                                  | Diagnosis     | ICD-10-CM |
| Q25.49 | Other congenital malformations of aorta                                | Diagnosis     | ICD-10-CM |
| Q25.5  | Atresia of pulmonary artery  | Diagnosis     | ICD-10-CM |
| Q25.6  | Stenosis of pulmonary artery   | Diagnosis     | ICD-10-CM |
| Q25.7  | Other congenital malformations of pulmonary artery                     | Diagnosis     | ICD-10-CM |
| Q25.71 | Coarctation of pulmonary artery  | Diagnosis     | ICD-10-CM |
| Q25.72 | Congenital pulmonary arteriovenous malformation                        | Diagnosis     | ICD-10-CM |
| Q25.79 | Other congenital malformations of pulmonary artery                     | Diagnosis     | ICD-10-CM |
| Q25.8  | Other congenital malformations of other great arteries                 | Diagnosis     | ICD-10-CM |
| Q25.9  | Congenital malformation of great arteries, unspecified                 | Diagnosis     | ICD-10-CM |
| Q26.0  | Congenital stenosis of vena cava                                       | Diagnosis     | ICD-10-CM |
| Q26.1  | Persistent left superior vena cava                                     | Diagnosis     | ICD-10-CM |
| Q26.2  | Total anomalous pulmonary venous connection                            | Diagnosis     | ICD-10-CM |
| Q26.3  | Partial anomalous pulmonary venous connection                          | Diagnosis     | ICD-10-CM |
| Q26.4  | Anomalous pulmonary venous connection, unspecified                     | Diagnosis     | ICD-10-CM |
| Q26.5  | Anomalous portal venous connection                                     | Diagnosis     | ICD-10-CM |
| Q26.6  | Portal vein-hepatic artery fistula                                     | Diagnosis     | ICD-10-CM |
| Q26.8  | Other congenital malformations of great veins                          | Diagnosis     | ICD-10-CM |
| Q26.9  | Congenital malformation of great vein, unspecified                     | Diagnosis     | ICD-10-CM |
| Q27.0  | Congenital absence and hypoplasia of umbilical artery                  | Diagnosis     | ICD-10-CM |
| Q27.1  | Congenital renal artery stenosis                                       | Diagnosis     | ICD-10-CM |
| Q27.2  | Other congenital malformations of renal artery                         | Diagnosis     | ICD-10-CM |
| Q27.3  | Arteriovenous malformation (peripheral)                                | Diagnosis     | ICD-10-CM |
| Q27.30 | Arteriovenous malformation, site unspecified                           | Diagnosis     | ICD-10-CM |
| Q27.31 | Arteriovenous malformation of vessel of upper limb                     | Diagnosis     | ICD-10-CM |
| Q27.32 | Arteriovenous malformation of vessel of lower limb                     | Diagnosis     | ICD-10-CM |
| Q27.33 | Arteriovenous malformation of digestive system vessel                  | Diagnosis     | ICD-10-CM |
| Q27.34 | Arteriovenous malformation of renal vessel                             | Diagnosis     | ICD-10-CM |
| Q27.39 | Arteriovenous malformation, other site                                 | Diagnosis     | ICD-10-CM |
| Q27.4  | Congenital phlebectasia  | Diagnosis     | ICD-10-CM |
| Q27.8  | Other specified congenital malformations of peripheral vascular system | Diagnosis     | ICD-10-CM |
| Q27.9  | Congenital malformation of peripheral vascular system, unspecified     | Diagnosis     | ICD-10-CM |
| Q28.0  | Arteriovenous malformation of precerebral vessels                      | Diagnosis     | ICD-10-CM |
| Q28.1  | Other malformations of precerebral vessels                             | Diagnosis     | ICD-10-CM |
| Q28.2  | Arteriovenous malformation of cerebral vessels                         | Diagnosis     | ICD-10-CM |
| Q28.3  | Other malformations of cerebral vessels                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code  | Description  | Code Category | Code Type |
|-------|--|---------------|-----------|
| Q28.8 | Other specified congenital malformations of circulatory system | Diagnosis     | ICD-10-CM |
| Q28.9 | Congenital malformation of circulatory system, unspecified     | Diagnosis     | ICD-10-CM |
| Q30.0 | Choanal atresia  | Diagnosis     | ICD-10-CM |
| Q30.1 | Agenesis and underdevelopment of nose                          | Diagnosis     | ICD-10-CM |
| Q30.2 | Fissured, notched and cleft nose                               | Diagnosis     | ICD-10-CM |
| Q30.3 | Congenital perforated nasal septum                             | Diagnosis     | ICD-10-CM |
| Q30.8 | Other congenital malformations of nose                         | Diagnosis     | ICD-10-CM |
| Q30.9 | Congenital malformation of nose, unspecified                   | Diagnosis     | ICD-10-CM |
| Q31.0 | Web of larynx  | Diagnosis     | ICD-10-CM |
| Q31.1 | Congenital subglottic stenosis                                 | Diagnosis     | ICD-10-CM |
| Q31.2 | Laryngeal hypoplasia   | Diagnosis     | ICD-10-CM |
| Q31.3 | Laryngocele  | Diagnosis     | ICD-10-CM |
| Q31.5 | Congenital laryngomalacia                                      | Diagnosis     | ICD-10-CM |
| Q31.8 | Other congenital malformations of larynx                       | Diagnosis     | ICD-10-CM |
| Q31.9 | Congenital malformation of larynx, unspecified                 | Diagnosis     | ICD-10-CM |
| Q32.0 | Congenital tracheomalacia                                      | Diagnosis     | ICD-10-CM |
| Q32.1 | Other congenital malformations of trachea                      | Diagnosis     | ICD-10-CM |
| Q32.2 | Congenital bronchomalacia                                      | Diagnosis     | ICD-10-CM |
| Q32.3 | Congenital stenosis of bronchus                                | Diagnosis     | ICD-10-CM |
| Q32.4 | Other congenital malformations of bronchus                     | Diagnosis     | ICD-10-CM |
| Q33.0 | Congenital cystic lung   | Diagnosis     | ICD-10-CM |
| Q33.1 | Accessory lobe of lung   | Diagnosis     | ICD-10-CM |
| Q33.2 | Sequestration of lung  | Diagnosis     | ICD-10-CM |
| Q33.3 | Agenesis of lung   | Diagnosis     | ICD-10-CM |
| Q33.4 | Congenital bronchiectasis                                      | Diagnosis     | ICD-10-CM |
| Q33.5 | Ectopic tissue in lung   | Diagnosis     | ICD-10-CM |
| Q33.6 | Congenital hypoplasia and dysplasia of lung                    | Diagnosis     | ICD-10-CM |
| Q33.8 | Other congenital malformations of lung                         | Diagnosis     | ICD-10-CM |
| Q33.9 | Congenital malformation of lung, unspecified                   | Diagnosis     | ICD-10-CM |
| Q34.0 | Anomaly of pleura  | Diagnosis     | ICD-10-CM |
| Q34.1 | Congenital cyst of mediastinum                                 | Diagnosis     | ICD-10-CM |
| Q34.8 | Other specified congenital malformations of respiratory system | Diagnosis     | ICD-10-CM |
| Q34.9 | Congenital malformation of respiratory system, unspecified     | Diagnosis     | ICD-10-CM |
| Q35.1 | Cleft hard palate  | Diagnosis     | ICD-10-CM |
| Q35.3 | Cleft soft palate  | Diagnosis     | ICD-10-CM |
| Q35.5 | Cleft hard palate with cleft soft palate                       | Diagnosis     | ICD-10-CM |
| Q35.7 | Cleft uvula  | Diagnosis     | ICD-10-CM |
| Q35.9 | Cleft palate, unspecified                                      | Diagnosis     | ICD-10-CM |
| Q36.0 | Cleft lip, bilateral   | Diagnosis     | ICD-10-CM |
| Q36.1 | Cleft lip, median  | Diagnosis     | ICD-10-CM |
| Q36.9 | Cleft lip, unilateral  | Diagnosis     | ICD-10-CM |
| Q37.0 | Cleft hard palate with bilateral cleft lip                     | Diagnosis     | ICD-10-CM |
| Q37.1 | Cleft hard palate with unilateral cleft lip                    | Diagnosis     | ICD-10-CM |
| Q37.2 | Cleft soft palate with bilateral cleft lip                     | Diagnosis     | ICD-10-CM |
| Q37.3 | Cleft soft palate with unilateral cleft lip                    | Diagnosis     | ICD-10-CM |
| Q37.4 | Cleft hard and soft palate with bilateral cleft lip            | Diagnosis     | ICD-10-CM |
| Q37.5 | Cleft hard and soft palate with unilateral cleft lip           | Diagnosis     | ICD-10-CM |
| Q37.8 | Unspecified cleft palate with bilateral cleft lip              | Diagnosis     | ICD-10-CM |
| Q37.9 | Unspecified cleft palate with unilateral cleft lip             | Diagnosis     | ICD-10-CM |
| Q38.0 | Congenital malformations of lips, not elsewhere classified     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code  | Description  | Code Category | Code Type |
|-------|--|---------------|-----------|
| Q38.1 | Ankyloglossia  | Diagnosis     | ICD-10-CM |
| Q38.2 | Macroglossia   | Diagnosis     | ICD-10-CM |
| Q38.3 | Other congenital malformations of tongue   | Diagnosis     | ICD-10-CM |
| Q38.4 | Congenital malformations of salivary glands and ducts                                | Diagnosis     | ICD-10-CM |
| Q38.5 | Congenital malformations of palate, not elsewhere classified                         | Diagnosis     | ICD-10-CM |
| Q38.6 | Other congenital malformations of mouth  | Diagnosis     | ICD-10-CM |
| Q38.7 | Congenital pharyngeal pouch  | Diagnosis     | ICD-10-CM |
| Q38.8 | Other congenital malformations of pharynx  | Diagnosis     | ICD-10-CM |
| Q39.0 | Atresia of esophagus without fistula   | Diagnosis     | ICD-10-CM |
| Q39.1 | Atresia of esophagus with tracheo-esophageal fistula                                 | Diagnosis     | ICD-10-CM |
| Q39.2 | Congenital tracheo-esophageal fistula without atresia                                | Diagnosis     | ICD-10-CM |
| Q39.3 | Congenital stenosis and stricture of esophagus                                       | Diagnosis     | ICD-10-CM |
| Q39.4 | Esophageal web   | Diagnosis     | ICD-10-CM |
| Q39.5 | Congenital dilatation of esophagus   | Diagnosis     | ICD-10-CM |
| Q39.6 | Congenital diverticulum of esophagus   | Diagnosis     | ICD-10-CM |
| Q39.8 | Other congenital malformations of esophagus  | Diagnosis     | ICD-10-CM |
| Q39.9 | Congenital malformation of esophagus, unspecified                                    | Diagnosis     | ICD-10-CM |
| Q40.0 | Congenital hypertrophic pyloric stenosis   | Diagnosis     | ICD-10-CM |
| Q40.1 | Congenital hiatus hernia   | Diagnosis     | ICD-10-CM |
| Q40.2 | Other specified congenital malformations of stomach                                  | Diagnosis     | ICD-10-CM |
| Q40.3 | Congenital malformation of stomach, unspecified                                      | Diagnosis     | ICD-10-CM |
| Q40.8 | Other specified congenital malformations of upper alimentary tract                   | Diagnosis     | ICD-10-CM |
| Q40.9 | Congenital malformation of upper alimentary tract, unspecified                       | Diagnosis     | ICD-10-CM |
| Q41.0 | Congenital absence, atresia and stenosis of duodenum                                 | Diagnosis     | ICD-10-CM |
| Q41.1 | Congenital absence, atresia and stenosis of jejunum                                  | Diagnosis     | ICD-10-CM |
| Q41.2 | Congenital absence, atresia and stenosis of ileum                                    | Diagnosis     | ICD-10-CM |
| Q41.8 | Congenital absence, atresia and stenosis of other specified parts of small intestine | Diagnosis     | ICD-10-CM |
| Q41.9 | Congenital absence, atresia and stenosis of small intestine, part unspecified        | Diagnosis     | ICD-10-CM |
| Q42.0 | Congenital absence, atresia and stenosis of rectum with fistula                      | Diagnosis     | ICD-10-CM |
| Q42.1 | Congenital absence, atresia and stenosis of rectum without fistula                   | Diagnosis     | ICD-10-CM |
| Q42.2 | Congenital absence, atresia and stenosis of anus with fistula                        | Diagnosis     | ICD-10-CM |
| Q42.3 | Congenital absence, atresia and stenosis of anus without fistula                     | Diagnosis     | ICD-10-CM |
| Q42.8 | Congenital absence, atresia and stenosis of other parts of large intestine           | Diagnosis     | ICD-10-CM |
| Q42.9 | Congenital absence, atresia and stenosis of large intestine, part unspecified        | Diagnosis     | ICD-10-CM |
| Q43.0 | Meckel's diverticulum (displaced) (hypertrophic)                                     | Diagnosis     | ICD-10-CM |
| Q43.1 | Hirschsprung's disease   | Diagnosis     | ICD-10-CM |
| Q43.2 | Other congenital functional disorders of colon                                       | Diagnosis     | ICD-10-CM |
| Q43.3 | Congenital malformations of intestinal fixation                                      | Diagnosis     | ICD-10-CM |
| Q43.4 | Duplication of intestine   | Diagnosis     | ICD-10-CM |
| Q43.5 | Ectopic anus   | Diagnosis     | ICD-10-CM |
| Q43.6 | Congenital fistula of rectum and anus  | Diagnosis     | ICD-10-CM |
| Q43.7 | Persistent cloaca  | Diagnosis     | ICD-10-CM |
| Q43.8 | Other specified congenital malformations of intestine                                | Diagnosis     | ICD-10-CM |
| Q43.9 | Congenital malformation of intestine, unspecified                                    | Diagnosis     | ICD-10-CM |
| Q44.0 | Agenesis, aplasia and hypoplasia of gallbladder                                      | Diagnosis     | ICD-10-CM |
| Q44.1 | Other congenital malformations of gallbladder  | Diagnosis     | ICD-10-CM |
| Q44.2 | Atresia of bile ducts  | Diagnosis     | ICD-10-CM |
| Q44.3 | Congenital stenosis and stricture of bile ducts                                      | Diagnosis     | ICD-10-CM |
| Q44.4 | Choledochal cyst   | Diagnosis     | ICD-10-CM |
| Q44.5 | Other congenital malformations of bile ducts   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| Q44.6   | Cystic disease of liver   | Diagnosis     | ICD-10-CM |
| Q44.7   | Other congenital malformations of liver                                   | Diagnosis     | ICD-10-CM |
| Q45.0   | Agenesis, aplasia and hypoplasia of pancreas                              | Diagnosis     | ICD-10-CM |
| Q45.1   | Annular pancreas  | Diagnosis     | ICD-10-CM |
| Q45.2   | Congenital pancreatic cyst  | Diagnosis     | ICD-10-CM |
| Q45.3   | Other congenital malformations of pancreas and pancreatic duct            | Diagnosis     | ICD-10-CM |
| Q45.8   | Other specified congenital malformations of digestive system              | Diagnosis     | ICD-10-CM |
| Q45.9   | Congenital malformation of digestive system, unspecified                  | Diagnosis     | ICD-10-CM |
| Q50.0   | Congenital absence of ovary   | Diagnosis     | ICD-10-CM |
| Q50.01  | Congenital absence of ovary, unilateral                                   | Diagnosis     | ICD-10-CM |
| Q50.02  | Congenital absence of ovary, bilateral                                    | Diagnosis     | ICD-10-CM |
| Q50.1   | Developmental ovarian cyst  | Diagnosis     | ICD-10-CM |
| Q50.2   | Congenital torsion of ovary   | Diagnosis     | ICD-10-CM |
| Q50.3   | Other congenital malformations of ovary                                   | Diagnosis     | ICD-10-CM |
| Q50.31  | Accessory ovary   | Diagnosis     | ICD-10-CM |
| Q50.32  | Ovarian streak  | Diagnosis     | ICD-10-CM |
| Q50.39  | Other congenital malformation of ovary                                    | Diagnosis     | ICD-10-CM |
| Q50.4   | Embryonic cyst of fallopian tube  | Diagnosis     | ICD-10-CM |
| Q50.5   | Embryonic cyst of broad ligament  | Diagnosis     | ICD-10-CM |
| Q50.6   | Other congenital malformations of fallopian tube and broad ligament       | Diagnosis     | ICD-10-CM |
| Q51.0   | Agenesis and aplasia of uterus  | Diagnosis     | ICD-10-CM |
| Q51.1   | Doubling of uterus with doubling of cervix and vagina                     | Diagnosis     | ICD-10-CM |
| Q51.10  | Doubling of uterus with doubling of cervix and vagina without obstruction | Diagnosis     | ICD-10-CM |
| Q51.11  | Doubling of uterus with doubling of cervix and vagina with obstruction    | Diagnosis     | ICD-10-CM |
| Q51.2   | Other doubling of uterus  | Diagnosis     | ICD-10-CM |
| Q51.20  | Other doubling of uterus, unspecified                                     | Diagnosis     | ICD-10-CM |
| Q51.21  | Complete doubling of uterus   | Diagnosis     | ICD-10-CM |
| Q51.22  | Partial doubling of uterus  | Diagnosis     | ICD-10-CM |
| Q51.28  | Other and unspecified doubling of uterus                                  | Diagnosis     | ICD-10-CM |
| Q51.3   | Bicornate uterus  | Diagnosis     | ICD-10-CM |
| Q51.4   | Unicornate uterus   | Diagnosis     | ICD-10-CM |
| Q51.5   | Agenesis and aplasia of cervix  | Diagnosis     | ICD-10-CM |
| Q51.6   | Embryonic cyst of cervix  | Diagnosis     | ICD-10-CM |
| Q51.7   | Congenital fistulae between uterus and digestive and urinary tracts       | Diagnosis     | ICD-10-CM |
| Q51.8   | Other congenital malformations of uterus and cervix                       | Diagnosis     | ICD-10-CM |
| Q51.81  | Other congenital malformations of uterus                                  | Diagnosis     | ICD-10-CM |
| Q51.810 | Arcuate uterus  | Diagnosis     | ICD-10-CM |
| Q51.811 | Hypoplasia of uterus  | Diagnosis     | ICD-10-CM |
| Q51.818 | Other congenital malformations of uterus                                  | Diagnosis     | ICD-10-CM |
| Q51.82  | Other congenital malformations of cervix                                  | Diagnosis     | ICD-10-CM |
| Q51.820 | Cervical duplication  | Diagnosis     | ICD-10-CM |
| Q51.821 | Hypoplasia of cervix  | Diagnosis     | ICD-10-CM |
| Q51.828 | Other congenital malformations of cervix                                  | Diagnosis     | ICD-10-CM |
| Q51.9   | Congenital malformation of uterus and cervix, unspecified                 | Diagnosis     | ICD-10-CM |
| Q52.0   | Congenital absence of vagina  | Diagnosis     | ICD-10-CM |
| Q52.1   | Doubling of vagina  | Diagnosis     | ICD-10-CM |
| Q52.10  | Doubling of vagina, unspecified   | Diagnosis     | ICD-10-CM |
| Q52.11  | Transverse vaginal septum   | Diagnosis     | ICD-10-CM |
| Q52.12  | Longitudinal vaginal septum   | Diagnosis     | ICD-10-CM |
| Q52.120 | Longitudinal vaginal septum, nonobstructing                               | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| Q52.121 | Longitudinal vaginal septum, obstructing, right side                 | Diagnosis     | ICD-10-CM |
| Q52.122 | Longitudinal vaginal septum, obstructing, left side                  | Diagnosis     | ICD-10-CM |
| Q52.123 | Longitudinal vaginal septum, microperforate, right side              | Diagnosis     | ICD-10-CM |
| Q52.124 | Longitudinal vaginal septum, microperforate, left side               | Diagnosis     | ICD-10-CM |
| Q52.129 | Other and unspecified longitudinal vaginal septum                    | Diagnosis     | ICD-10-CM |
| Q52.2   | Congenital rectovaginal fistula                                      | Diagnosis     | ICD-10-CM |
| Q52.3   | Imperforate hymen  | Diagnosis     | ICD-10-CM |
| Q52.4   | Other congenital malformations of vagina                             | Diagnosis     | ICD-10-CM |
| Q52.5   | Fusion of labia  | Diagnosis     | ICD-10-CM |
| Q52.6   | Congenital malformation of clitoris                                  | Diagnosis     | ICD-10-CM |
| Q52.7   | Other and unspecified congenital malformations of vulva              | Diagnosis     | ICD-10-CM |
| Q52.70  | Unspecified congenital malformations of vulva                        | Diagnosis     | ICD-10-CM |
| Q52.71  | Congenital absence of vulva  | Diagnosis     | ICD-10-CM |
| Q52.79  | Other congenital malformations of vulva                              | Diagnosis     | ICD-10-CM |
| Q52.8   | Other specified congenital malformations of female genitalia         | Diagnosis     | ICD-10-CM |
| Q52.9   | Congenital malformation of female genitalia, unspecified             | Diagnosis     | ICD-10-CM |
| Q53.0   | Ectopic testis   | Diagnosis     | ICD-10-CM |
| Q53.00  | Ectopic testis, unspecified  | Diagnosis     | ICD-10-CM |
| Q53.01  | Ectopic testis, unilateral   | Diagnosis     | ICD-10-CM |
| Q53.02  | Ectopic testes, bilateral  | Diagnosis     | ICD-10-CM |
| Q53.1   | Undescended testicle, unilateral                                     | Diagnosis     | ICD-10-CM |
| Q53.10  | Unspecified undescended testicle, unilateral                         | Diagnosis     | ICD-10-CM |
| Q53.11  | Abdominal testis, unilateral   | Diagnosis     | ICD-10-CM |
| Q53.111 | Unilateral intraabdominal testis                                     | Diagnosis     | ICD-10-CM |
| Q53.112 | Unilateral inguinal testis   | Diagnosis     | ICD-10-CM |
| Q53.12  | Ectopic perineal testis, unilateral                                  | Diagnosis     | ICD-10-CM |
| Q53.13  | Unilateral high scrotal testis                                       | Diagnosis     | ICD-10-CM |
| Q53.2   | Undescended testicle, bilateral                                      | Diagnosis     | ICD-10-CM |
| Q53.20  | Undescended testicle, unspecified, bilateral                         | Diagnosis     | ICD-10-CM |
| Q53.21  | Abdominal testis, bilateral  | Diagnosis     | ICD-10-CM |
| Q53.211 | Bilateral intraabdominal testes                                      | Diagnosis     | ICD-10-CM |
| Q53.212 | Bilateral inguinal testes  | Diagnosis     | ICD-10-CM |
| Q53.22  | Ectopic perineal testis, bilateral                                   | Diagnosis     | ICD-10-CM |
| Q53.23  | Bilateral high scrotal testes  | Diagnosis     | ICD-10-CM |
| Q53.9   | Undescended testicle, unspecified                                    | Diagnosis     | ICD-10-CM |
| Q54.0   | Hypospadias, balanic   | Diagnosis     | ICD-10-CM |
| Q54.1   | Hypospadias, penile  | Diagnosis     | ICD-10-CM |
| Q54.2   | Hypospadias, penoscrotal   | Diagnosis     | ICD-10-CM |
| Q54.3   | Hypospadias, perineal  | Diagnosis     | ICD-10-CM |
| Q54.4   | Congenital chordee   | Diagnosis     | ICD-10-CM |
| Q54.8   | Other hypospadias  | Diagnosis     | ICD-10-CM |
| Q54.9   | Hypospadias, unspecified   | Diagnosis     | ICD-10-CM |
| Q55.0   | Absence and aplasia of testis  | Diagnosis     | ICD-10-CM |
| Q55.1   | Hypoplasia of testis and scrotum                                     | Diagnosis     | ICD-10-CM |
| Q55.2   | Other and unspecified congenital malformations of testis and scrotum | Diagnosis     | ICD-10-CM |
| Q55.20  | Unspecified congenital malformations of testis and scrotum           | Diagnosis     | ICD-10-CM |
| Q55.21  | Polyorchism  | Diagnosis     | ICD-10-CM |
| Q55.22  | Retractile testis  | Diagnosis     | ICD-10-CM |
| Q55.23  | Scrotal transposition  | Diagnosis     | ICD-10-CM |
| Q55.29  | Other congenital malformations of testis and scrotum                 | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description   | Code Category | Code Type |
|--------|---|---------------|-----------|
| Q55.3  | Atresia of vas deferens   | Diagnosis     | ICD-10-CM |
| Q55.4  | Other congenital malformations of vas deferens, epididymis, seminal vesicles and prostate | Diagnosis     | ICD-10-CM |
| Q55.5  | Congenital absence and aplasia of penis   | Diagnosis     | ICD-10-CM |
| Q55.6  | Other congenital malformations of penis   | Diagnosis     | ICD-10-CM |
| Q55.61 | Curvature of penis (lateral)  | Diagnosis     | ICD-10-CM |
| Q55.62 | Hypoplasia of penis   | Diagnosis     | ICD-10-CM |
| Q55.63 | Congenital torsion of penis   | Diagnosis     | ICD-10-CM |
| Q55.64 | Hidden penis  | Diagnosis     | ICD-10-CM |
| Q55.69 | Other congenital malformation of penis  | Diagnosis     | ICD-10-CM |
| Q55.7  | Congenital vasocutaneous fistula  | Diagnosis     | ICD-10-CM |
| Q55.8  | Other specified congenital malformations of male genital organs                           | Diagnosis     | ICD-10-CM |
| Q55.9  | Congenital malformation of male genital organ, unspecified                                | Diagnosis     | ICD-10-CM |
| Q56.0  | Hermaphroditism, not elsewhere classified   | Diagnosis     | ICD-10-CM |
| Q56.1  | Male pseudohermaphroditism, not elsewhere classified                                      | Diagnosis     | ICD-10-CM |
| Q56.2  | Female pseudohermaphroditism, not elsewhere classified                                    | Diagnosis     | ICD-10-CM |
| Q56.3  | Pseudohermaphroditism, unspecified  | Diagnosis     | ICD-10-CM |
| Q56.4  | Indeterminate sex, unspecified  | Diagnosis     | ICD-10-CM |
| Q60.0  | Renal agenesis, unilateral  | Diagnosis     | ICD-10-CM |
| Q60.1  | Renal agenesis, bilateral   | Diagnosis     | ICD-10-CM |
| Q60.2  | Renal agenesis, unspecified   | Diagnosis     | ICD-10-CM |
| Q60.3  | Renal hypoplasia, unilateral  | Diagnosis     | ICD-10-CM |
| Q60.4  | Renal hypoplasia, bilateral   | Diagnosis     | ICD-10-CM |
| Q60.5  | Renal hypoplasia, unspecified   | Diagnosis     | ICD-10-CM |
| Q60.6  | Potter's syndrome   | Diagnosis     | ICD-10-CM |
| Q61.0  | Congenital renal cyst   | Diagnosis     | ICD-10-CM |
| Q61.00 | Congenital renal cyst, unspecified  | Diagnosis     | ICD-10-CM |
| Q61.01 | Congenital single renal cyst  | Diagnosis     | ICD-10-CM |
| Q61.02 | Congenital multiple renal cysts   | Diagnosis     | ICD-10-CM |
| Q61.1  | Polycystic kidney, infantile type   | Diagnosis     | ICD-10-CM |
| Q61.11 | Cystic dilatation of collecting ducts   | Diagnosis     | ICD-10-CM |
| Q61.19 | Other polycystic kidney, infantile type   | Diagnosis     | ICD-10-CM |
| Q61.2  | Polycystic kidney, adult type   | Diagnosis     | ICD-10-CM |
| Q61.3  | Polycystic kidney, unspecified  | Diagnosis     | ICD-10-CM |
| Q61.4  | Renal dysplasia   | Diagnosis     | ICD-10-CM |
| Q61.5  | Medullary cystic kidney   | Diagnosis     | ICD-10-CM |
| Q61.8  | Other cystic kidney diseases  | Diagnosis     | ICD-10-CM |
| Q61.9  | Cystic kidney disease, unspecified  | Diagnosis     | ICD-10-CM |
| Q62.0  | Congenital hydronephrosis   | Diagnosis     | ICD-10-CM |
| Q62.1  | Congenital occlusion of ureter  | Diagnosis     | ICD-10-CM |
| Q62.10 | Congenital occlusion of ureter, unspecified   | Diagnosis     | ICD-10-CM |
| Q62.11 | Congenital occlusion of ureteropelvic junction  | Diagnosis     | ICD-10-CM |
| Q62.12 | Congenital occlusion of ureterovesical orifice  | Diagnosis     | ICD-10-CM |
| Q62.2  | Congenital megaureter   | Diagnosis     | ICD-10-CM |
| Q62.3  | Other obstructive defects of renal pelvis and ureter                                      | Diagnosis     | ICD-10-CM |
| Q62.31 | Congenital ureterocele, orthotopic  | Diagnosis     | ICD-10-CM |
| Q62.32 | Cecoureterocele   | Diagnosis     | ICD-10-CM |
| Q62.39 | Other obstructive defects of renal pelvis and ureter                                      | Diagnosis     | ICD-10-CM |
| Q62.4  | Agenesis of ureter  | Diagnosis     | ICD-10-CM |
| Q62.5  | Duplication of ureter   | Diagnosis     | ICD-10-CM |
| Q62.6  | Malposition of ureter   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description   | Code Category | Code Type |
|--------|---|---------------|-----------|
| Q62.60 | Malposition of ureter, unspecified                                    | Diagnosis     | ICD-10-CM |
| Q62.61 | Deviation of ureter   | Diagnosis     | ICD-10-CM |
| Q62.62 | Displacement of ureter  | Diagnosis     | ICD-10-CM |
| Q62.63 | Anomalous implantation of ureter                                      | Diagnosis     | ICD-10-CM |
| Q62.69 | Other malposition of ureter   | Diagnosis     | ICD-10-CM |
| Q62.7  | Congenital vesico-uretero-renal reflux                                | Diagnosis     | ICD-10-CM |
| Q62.8  | Other congenital malformations of ureter                              | Diagnosis     | ICD-10-CM |
| Q63.0  | Accessory kidney  | Diagnosis     | ICD-10-CM |
| Q63.1  | Lobulated, fused and horseshoe kidney                                 | Diagnosis     | ICD-10-CM |
| Q63.2  | Ectopic kidney  | Diagnosis     | ICD-10-CM |
| Q63.3  | Hyperplastic and giant kidney   | Diagnosis     | ICD-10-CM |
| Q63.8  | Other specified congenital malformations of kidney                    | Diagnosis     | ICD-10-CM |
| Q63.9  | Congenital malformation of kidney, unspecified                        | Diagnosis     | ICD-10-CM |
| Q64.0  | Epispadias  | Diagnosis     | ICD-10-CM |
| Q64.1  | Exstrophy of urinary bladder  | Diagnosis     | ICD-10-CM |
| Q64.10 | Exstrophy of urinary bladder, unspecified                             | Diagnosis     | ICD-10-CM |
| Q64.11 | Supravesical fissure of urinary bladder                               | Diagnosis     | ICD-10-CM |
| Q64.12 | Cloacal exstrophy of urinary bladder                                  | Diagnosis     | ICD-10-CM |
| Q64.19 | Other exstrophy of urinary bladder                                    | Diagnosis     | ICD-10-CM |
| Q64.2  | Congenital posterior urethral valves                                  | Diagnosis     | ICD-10-CM |
| Q64.3  | Other atresia and stenosis of urethra and bladder neck                | Diagnosis     | ICD-10-CM |
| Q64.31 | Congenital bladder neck obstruction                                   | Diagnosis     | ICD-10-CM |
| Q64.32 | Congenital stricture of urethra                                       | Diagnosis     | ICD-10-CM |
| Q64.33 | Congenital stricture of urinary meatus                                | Diagnosis     | ICD-10-CM |
| Q64.39 | Other atresia and stenosis of urethra and bladder neck                | Diagnosis     | ICD-10-CM |
| Q64.4  | Malformation of urachus   | Diagnosis     | ICD-10-CM |
| Q64.5  | Congenital absence of bladder and urethra                             | Diagnosis     | ICD-10-CM |
| Q64.6  | Congenital diverticulum of bladder                                    | Diagnosis     | ICD-10-CM |
| Q64.7  | Other and unspecified congenital malformations of bladder and urethra | Diagnosis     | ICD-10-CM |
| Q64.70 | Unspecified congenital malformation of bladder and urethra            | Diagnosis     | ICD-10-CM |
| Q64.71 | Congenital prolapse of urethra  | Diagnosis     | ICD-10-CM |
| Q64.72 | Congenital prolapse of urinary meatus                                 | Diagnosis     | ICD-10-CM |
| Q64.73 | Congenital urethrorectal fistula                                      | Diagnosis     | ICD-10-CM |
| Q64.74 | Double urethra  | Diagnosis     | ICD-10-CM |
| Q64.75 | Double urinary meatus   | Diagnosis     | ICD-10-CM |
| Q64.79 | Other congenital malformations of bladder and urethra                 | Diagnosis     | ICD-10-CM |
| Q64.8  | Other specified congenital malformations of urinary system            | Diagnosis     | ICD-10-CM |
| Q64.9  | Congenital malformation of urinary system, unspecified                | Diagnosis     | ICD-10-CM |
| Q65.0  | Congenital dislocation of hip, unilateral                             | Diagnosis     | ICD-10-CM |
| Q65.00 | Congenital dislocation of unspecified hip, unilateral                 | Diagnosis     | ICD-10-CM |
| Q65.01 | Congenital dislocation of right hip, unilateral                       | Diagnosis     | ICD-10-CM |
| Q65.02 | Congenital dislocation of left hip, unilateral                        | Diagnosis     | ICD-10-CM |
| Q65.1  | Congenital dislocation of hip, bilateral                              | Diagnosis     | ICD-10-CM |
| Q65.2  | Congenital dislocation of hip, unspecified                            | Diagnosis     | ICD-10-CM |
| Q65.3  | Congenital partial dislocation of hip, unilateral                     | Diagnosis     | ICD-10-CM |
| Q65.30 | Congenital partial dislocation of unspecified hip, unilateral         | Diagnosis     | ICD-10-CM |
| Q65.31 | Congenital partial dislocation of right hip, unilateral               | Diagnosis     | ICD-10-CM |
| Q65.32 | Congenital partial dislocation of left hip, unilateral                | Diagnosis     | ICD-10-CM |
| Q65.4  | Congenital partial dislocation of hip, bilateral                      | Diagnosis     | ICD-10-CM |
| Q65.5  | Congenital partial dislocation of hip, unspecified                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| Q65.6   | Congenital unstable hip                                      | Diagnosis     | ICD-10-CM |
| Q65.8   | Other congenital deformities of hip                          | Diagnosis     | ICD-10-CM |
| Q65.81  | Congenital coxa valga  | Diagnosis     | ICD-10-CM |
| Q65.82  | Congenital coxa vara   | Diagnosis     | ICD-10-CM |
| Q65.89  | Other specified congenital deformities of hip                | Diagnosis     | ICD-10-CM |
| Q65.9   | Congenital deformity of hip, unspecified                     | Diagnosis     | ICD-10-CM |
| Q66.0   | Congenital talipes equinovarus                               | Diagnosis     | ICD-10-CM |
| Q66.00  | Congenital talipes equinovarus, unspecified foot             | Diagnosis     | ICD-10-CM |
| Q66.01  | Congenital talipes equinovarus, right foot                   | Diagnosis     | ICD-10-CM |
| Q66.02  | Congenital talipes equinovarus, left foot                    | Diagnosis     | ICD-10-CM |
| Q66.1   | Congenital talipes calcaneovarus                             | Diagnosis     | ICD-10-CM |
| Q66.10  | Congenital talipes calcaneovarus, unspecified foot           | Diagnosis     | ICD-10-CM |
| Q66.11  | Congenital talipes calcaneovarus, right foot                 | Diagnosis     | ICD-10-CM |
| Q66.12  | Congenital talipes calcaneovarus, left foot                  | Diagnosis     | ICD-10-CM |
| Q66.2   | Congenital metatarsus (primus) varus                         | Diagnosis     | ICD-10-CM |
| Q66.21  | Congenital metatarsus primus varus                           | Diagnosis     | ICD-10-CM |
| Q66.211 | Congenital metatarsus primus varus, right foot               | Diagnosis     | ICD-10-CM |
| Q66.212 | Congenital metatarsus primus varus, left foot                | Diagnosis     | ICD-10-CM |
| Q66.219 | Congenital metatarsus primus varus, unspecified foot         | Diagnosis     | ICD-10-CM |
| Q66.22  | Congenital metatarsus adductus                               | Diagnosis     | ICD-10-CM |
| Q66.221 | Congenital metatarsus adductus, right foot                   | Diagnosis     | ICD-10-CM |
| Q66.222 | Congenital metatarsus adductus, left foot                    | Diagnosis     | ICD-10-CM |
| Q66.229 | Congenital metatarsus adductus, unspecified foot             | Diagnosis     | ICD-10-CM |
| Q66.3   | Other congenital varus deformities of feet                   | Diagnosis     | ICD-10-CM |
| Q66.30  | Other congenital varus deformities of feet, unspecified foot | Diagnosis     | ICD-10-CM |
| Q66.31  | Other congenital varus deformities of feet, right foot       | Diagnosis     | ICD-10-CM |
| Q66.32  | Other congenital varus deformities of feet, left foot        | Diagnosis     | ICD-10-CM |
| Q66.4   | Congenital talipes calcaneovalgus                            | Diagnosis     | ICD-10-CM |
| Q66.40  | Congenital talipes calcaneovalgus, unspecified foot          | Diagnosis     | ICD-10-CM |
| Q66.41  | Congenital talipes calcaneovalgus, right foot                | Diagnosis     | ICD-10-CM |
| Q66.42  | Congenital talipes calcaneovalgus, left foot                 | Diagnosis     | ICD-10-CM |
| Q66.5   | Congenital pes planus  | Diagnosis     | ICD-10-CM |
| Q66.50  | Congenital pes planus, unspecified foot                      | Diagnosis     | ICD-10-CM |
| Q66.51  | Congenital pes planus, right foot                            | Diagnosis     | ICD-10-CM |
| Q66.52  | Congenital pes planus, left foot                             | Diagnosis     | ICD-10-CM |
| Q66.6   | Other congenital valgus deformities of feet                  | Diagnosis     | ICD-10-CM |
| Q66.7   | Congenital pes cavus   | Diagnosis     | ICD-10-CM |
| Q66.70  | Congenital pes cavus, unspecified foot                       | Diagnosis     | ICD-10-CM |
| Q66.71  | Congenital pes cavus, right foot                             | Diagnosis     | ICD-10-CM |
| Q66.72  | Congenital pes cavus, left foot                              | Diagnosis     | ICD-10-CM |
| Q66.8   | Other congenital deformities of feet                         | Diagnosis     | ICD-10-CM |
| Q66.80  | Congenital vertical talus deformity, unspecified foot        | Diagnosis     | ICD-10-CM |
| Q66.81  | Congenital vertical talus deformity, right foot              | Diagnosis     | ICD-10-CM |
| Q66.82  | Congenital vertical talus deformity, left foot               | Diagnosis     | ICD-10-CM |
| Q66.89  | Other specified congenital deformities of feet               | Diagnosis     | ICD-10-CM |
| Q66.9   | Congenital deformity of feet, unspecified                    | Diagnosis     | ICD-10-CM |
| Q66.90  | Congenital deformity of feet, unspecified, unspecified foot  | Diagnosis     | ICD-10-CM |
| Q66.91  | Congenital deformity of feet, unspecified, right foot        | Diagnosis     | ICD-10-CM |
| Q66.92  | Congenital deformity of feet, unspecified, left foot         | Diagnosis     | ICD-10-CM |
| Q67.0   | Congenital facial asymmetry                                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description   | Code Category | Code Type |
|--------|---|---------------|-----------|
| Q67.1  | Congenital compression facies   | Diagnosis     | ICD-10-CM |
| Q67.2  | Dolichocephaly  | Diagnosis     | ICD-10-CM |
| Q67.3  | Plagiocephaly   | Diagnosis     | ICD-10-CM |
| Q67.4  | Other congenital deformities of skull, face and jaw                       | Diagnosis     | ICD-10-CM |
| Q67.5  | Congenital deformity of spine   | Diagnosis     | ICD-10-CM |
| Q67.6  | Pectus excavatum  | Diagnosis     | ICD-10-CM |
| Q67.7  | Pectus carinatum  | Diagnosis     | ICD-10-CM |
| Q67.8  | Other congenital deformities of chest                                     | Diagnosis     | ICD-10-CM |
| Q68.0  | Congenital deformity of sternocleidomastoid muscle                        | Diagnosis     | ICD-10-CM |
| Q68.1  | Congenital deformity of finger(s) and hand                                | Diagnosis     | ICD-10-CM |
| Q68.2  | Congenital deformity of knee  | Diagnosis     | ICD-10-CM |
| Q68.3  | Congenital bowing of femur  | Diagnosis     | ICD-10-CM |
| Q68.4  | Congenital bowing of tibia and fibula                                     | Diagnosis     | ICD-10-CM |
| Q68.5  | Congenital bowing of long bones of leg, unspecified                       | Diagnosis     | ICD-10-CM |
| Q68.6  | Discoic meniscus  | Diagnosis     | ICD-10-CM |
| Q68.8  | Other specified congenital musculoskeletal deformities                    | Diagnosis     | ICD-10-CM |
| Q69.0  | Accessory finger(s)   | Diagnosis     | ICD-10-CM |
| Q69.1  | Accessory thumb(s)  | Diagnosis     | ICD-10-CM |
| Q69.2  | Accessory toe(s)  | Diagnosis     | ICD-10-CM |
| Q69.9  | Polydactyly, unspecified  | Diagnosis     | ICD-10-CM |
| Q70.0  | Fused fingers   | Diagnosis     | ICD-10-CM |
| Q70.00 | Fused fingers, unspecified hand   | Diagnosis     | ICD-10-CM |
| Q70.01 | Fused fingers, right hand   | Diagnosis     | ICD-10-CM |
| Q70.02 | Fused fingers, left hand  | Diagnosis     | ICD-10-CM |
| Q70.03 | Fused fingers, bilateral  | Diagnosis     | ICD-10-CM |
| Q70.1  | Webbed fingers  | Diagnosis     | ICD-10-CM |
| Q70.10 | Webbed fingers, unspecified hand  | Diagnosis     | ICD-10-CM |
| Q70.11 | Webbed fingers, right hand  | Diagnosis     | ICD-10-CM |
| Q70.12 | Webbed fingers, left hand   | Diagnosis     | ICD-10-CM |
| Q70.13 | Webbed fingers, bilateral   | Diagnosis     | ICD-10-CM |
| Q70.2  | Fused toes  | Diagnosis     | ICD-10-CM |
| Q70.20 | Fused toes, unspecified foot  | Diagnosis     | ICD-10-CM |
| Q70.21 | Fused toes, right foot  | Diagnosis     | ICD-10-CM |
| Q70.22 | Fused toes, left foot   | Diagnosis     | ICD-10-CM |
| Q70.23 | Fused toes, bilateral   | Diagnosis     | ICD-10-CM |
| Q70.3  | Webbed toes   | Diagnosis     | ICD-10-CM |
| Q70.30 | Webbed toes, unspecified foot   | Diagnosis     | ICD-10-CM |
| Q70.31 | Webbed toes, right foot   | Diagnosis     | ICD-10-CM |
| Q70.32 | Webbed toes, left foot  | Diagnosis     | ICD-10-CM |
| Q70.33 | Webbed toes, bilateral  | Diagnosis     | ICD-10-CM |
| Q70.4  | Polysyndactyly, unspecified   | Diagnosis     | ICD-10-CM |
| Q70.9  | Syndactyly, unspecified   | Diagnosis     | ICD-10-CM |
| Q71.0  | Congenital complete absence of upper limb                                 | Diagnosis     | ICD-10-CM |
| Q71.00 | Congenital complete absence of unspecified upper limb                     | Diagnosis     | ICD-10-CM |
| Q71.01 | Congenital complete absence of right upper limb                           | Diagnosis     | ICD-10-CM |
| Q71.02 | Congenital complete absence of left upper limb                            | Diagnosis     | ICD-10-CM |
| Q71.03 | Congenital complete absence of upper limb, bilateral                      | Diagnosis     | ICD-10-CM |
| Q71.1  | Congenital absence of upper arm and forearm with hand present             | Diagnosis     | ICD-10-CM |
| Q71.10 | Congenital absence of unspecified upper arm and forearm with hand present | Diagnosis     | ICD-10-CM |
| Q71.11 | Congenital absence of right upper arm and forearm with hand present       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| Q71.12  | Congenital absence of left upper arm and forearm with hand present       | Diagnosis     | ICD-10-CM |
| Q71.13  | Congenital absence of upper arm and forearm with hand present, bilateral | Diagnosis     | ICD-10-CM |
| Q71.2   | Congenital absence of both forearm and hand                              | Diagnosis     | ICD-10-CM |
| Q71.20  | Congenital absence of both forearm and hand, unspecified upper limb      | Diagnosis     | ICD-10-CM |
| Q71.21  | Congenital absence of both forearm and hand, right upper limb            | Diagnosis     | ICD-10-CM |
| Q71.22  | Congenital absence of both forearm and hand, left upper limb             | Diagnosis     | ICD-10-CM |
| Q71.23  | Congenital absence of both forearm and hand, bilateral                   | Diagnosis     | ICD-10-CM |
| Q71.3   | Congenital absence of hand and finger                                    | Diagnosis     | ICD-10-CM |
| Q71.30  | Congenital absence of unspecified hand and finger                        | Diagnosis     | ICD-10-CM |
| Q71.31  | Congenital absence of right hand and finger                              | Diagnosis     | ICD-10-CM |
| Q71.32  | Congenital absence of left hand and finger                               | Diagnosis     | ICD-10-CM |
| Q71.33  | Congenital absence of hand and finger, bilateral                         | Diagnosis     | ICD-10-CM |
| Q71.4   | Longitudinal reduction defect of radius                                  | Diagnosis     | ICD-10-CM |
| Q71.40  | Longitudinal reduction defect of unspecified radius                      | Diagnosis     | ICD-10-CM |
| Q71.41  | Longitudinal reduction defect of right radius                            | Diagnosis     | ICD-10-CM |
| Q71.42  | Longitudinal reduction defect of left radius                             | Diagnosis     | ICD-10-CM |
| Q71.43  | Longitudinal reduction defect of radius, bilateral                       | Diagnosis     | ICD-10-CM |
| Q71.5   | Longitudinal reduction defect of ulna                                    | Diagnosis     | ICD-10-CM |
| Q71.50  | Longitudinal reduction defect of unspecified ulna                        | Diagnosis     | ICD-10-CM |
| Q71.51  | Longitudinal reduction defect of right ulna                              | Diagnosis     | ICD-10-CM |
| Q71.52  | Longitudinal reduction defect of left ulna                               | Diagnosis     | ICD-10-CM |
| Q71.53  | Longitudinal reduction defect of ulna, bilateral                         | Diagnosis     | ICD-10-CM |
| Q71.6   | Lobster-claw hand  | Diagnosis     | ICD-10-CM |
| Q71.60  | Lobster-claw hand, unspecified hand                                      | Diagnosis     | ICD-10-CM |
| Q71.61  | Lobster-claw right hand  | Diagnosis     | ICD-10-CM |
| Q71.62  | Lobster-claw left hand   | Diagnosis     | ICD-10-CM |
| Q71.63  | Lobster-claw hand, bilateral   | Diagnosis     | ICD-10-CM |
| Q71.8   | Other reduction defects of upper limb                                    | Diagnosis     | ICD-10-CM |
| Q71.81  | Congenital shortening of upper limb                                      | Diagnosis     | ICD-10-CM |
| Q71.811 | Congenital shortening of right upper limb                                | Diagnosis     | ICD-10-CM |
| Q71.812 | Congenital shortening of left upper limb                                 | Diagnosis     | ICD-10-CM |
| Q71.813 | Congenital shortening of upper limb, bilateral                           | Diagnosis     | ICD-10-CM |
| Q71.819 | Congenital shortening of unspecified upper limb                          | Diagnosis     | ICD-10-CM |
| Q71.89  | Other reduction defects of upper limb                                    | Diagnosis     | ICD-10-CM |
| Q71.891 | Other reduction defects of right upper limb                              | Diagnosis     | ICD-10-CM |
| Q71.892 | Other reduction defects of left upper limb                               | Diagnosis     | ICD-10-CM |
| Q71.893 | Other reduction defects of upper limb, bilateral                         | Diagnosis     | ICD-10-CM |
| Q71.899 | Other reduction defects of unspecified upper limb                        | Diagnosis     | ICD-10-CM |
| Q71.9   | Unspecified reduction defect of upper limb                               | Diagnosis     | ICD-10-CM |
| Q71.90  | Unspecified reduction defect of unspecified upper limb                   | Diagnosis     | ICD-10-CM |
| Q71.91  | Unspecified reduction defect of right upper limb                         | Diagnosis     | ICD-10-CM |
| Q71.92  | Unspecified reduction defect of left upper limb                          | Diagnosis     | ICD-10-CM |
| Q71.93  | Unspecified reduction defect of upper limb, bilateral                    | Diagnosis     | ICD-10-CM |
| Q72.0   | Congenital complete absence of lower limb                                | Diagnosis     | ICD-10-CM |
| Q72.00  | Congenital complete absence of unspecified lower limb                    | Diagnosis     | ICD-10-CM |
| Q72.01  | Congenital complete absence of right lower limb                          | Diagnosis     | ICD-10-CM |
| Q72.02  | Congenital complete absence of left lower limb                           | Diagnosis     | ICD-10-CM |
| Q72.03  | Congenital complete absence of lower limb, bilateral                     | Diagnosis     | ICD-10-CM |
| Q72.1   | Congenital absence of thigh and lower leg with foot present              | Diagnosis     | ICD-10-CM |
| Q72.10  | Congenital absence of unspecified thigh and lower leg with foot present  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| Q72.11  | Congenital absence of right thigh and lower leg with foot present      | Diagnosis     | ICD-10-CM |
| Q72.12  | Congenital absence of left thigh and lower leg with foot present       | Diagnosis     | ICD-10-CM |
| Q72.13  | Congenital absence of thigh and lower leg with foot present, bilateral | Diagnosis     | ICD-10-CM |
| Q72.2   | Congenital absence of both lower leg and foot                          | Diagnosis     | ICD-10-CM |
| Q72.20  | Congenital absence of both lower leg and foot, unspecified lower limb  | Diagnosis     | ICD-10-CM |
| Q72.21  | Congenital absence of both lower leg and foot, right lower limb        | Diagnosis     | ICD-10-CM |
| Q72.22  | Congenital absence of both lower leg and foot, left lower limb         | Diagnosis     | ICD-10-CM |
| Q72.23  | Congenital absence of both lower leg and foot, bilateral               | Diagnosis     | ICD-10-CM |
| Q72.3   | Congenital absence of foot and toe(s)                                  | Diagnosis     | ICD-10-CM |
| Q72.30  | Congenital absence of unspecified foot and toe(s)                      | Diagnosis     | ICD-10-CM |
| Q72.31  | Congenital absence of right foot and toe(s)                            | Diagnosis     | ICD-10-CM |
| Q72.32  | Congenital absence of left foot and toe(s)                             | Diagnosis     | ICD-10-CM |
| Q72.33  | Congenital absence of foot and toe(s), bilateral                       | Diagnosis     | ICD-10-CM |
| Q72.4   | Longitudinal reduction defect of femur                                 | Diagnosis     | ICD-10-CM |
| Q72.40  | Longitudinal reduction defect of unspecified femur                     | Diagnosis     | ICD-10-CM |
| Q72.41  | Longitudinal reduction defect of right femur                           | Diagnosis     | ICD-10-CM |
| Q72.42  | Longitudinal reduction defect of left femur                            | Diagnosis     | ICD-10-CM |
| Q72.43  | Longitudinal reduction defect of femur, bilateral                      | Diagnosis     | ICD-10-CM |
| Q72.5   | Longitudinal reduction defect of tibia                                 | Diagnosis     | ICD-10-CM |
| Q72.50  | Longitudinal reduction defect of unspecified tibia                     | Diagnosis     | ICD-10-CM |
| Q72.51  | Longitudinal reduction defect of right tibia                           | Diagnosis     | ICD-10-CM |
| Q72.52  | Longitudinal reduction defect of left tibia                            | Diagnosis     | ICD-10-CM |
| Q72.53  | Longitudinal reduction defect of tibia, bilateral                      | Diagnosis     | ICD-10-CM |
| Q72.6   | Longitudinal reduction defect of fibula                                | Diagnosis     | ICD-10-CM |
| Q72.60  | Longitudinal reduction defect of unspecified fibula                    | Diagnosis     | ICD-10-CM |
| Q72.61  | Longitudinal reduction defect of right fibula                          | Diagnosis     | ICD-10-CM |
| Q72.62  | Longitudinal reduction defect of left fibula                           | Diagnosis     | ICD-10-CM |
| Q72.63  | Longitudinal reduction defect of fibula, bilateral                     | Diagnosis     | ICD-10-CM |
| Q72.7   | Split foot   | Diagnosis     | ICD-10-CM |
| Q72.70  | Split foot, unspecified lower limb                                     | Diagnosis     | ICD-10-CM |
| Q72.71  | Split foot, right lower limb   | Diagnosis     | ICD-10-CM |
| Q72.72  | Split foot, left lower limb  | Diagnosis     | ICD-10-CM |
| Q72.73  | Split foot, bilateral  | Diagnosis     | ICD-10-CM |
| Q72.8   | Other reduction defects of lower limb                                  | Diagnosis     | ICD-10-CM |
| Q72.81  | Congenital shortening of lower limb                                    | Diagnosis     | ICD-10-CM |
| Q72.811 | Congenital shortening of right lower limb                              | Diagnosis     | ICD-10-CM |
| Q72.812 | Congenital shortening of left lower limb                               | Diagnosis     | ICD-10-CM |
| Q72.813 | Congenital shortening of lower limb, bilateral                         | Diagnosis     | ICD-10-CM |
| Q72.819 | Congenital shortening of unspecified lower limb                        | Diagnosis     | ICD-10-CM |
| Q72.89  | Other reduction defects of lower limb                                  | Diagnosis     | ICD-10-CM |
| Q72.891 | Other reduction defects of right lower limb                            | Diagnosis     | ICD-10-CM |
| Q72.892 | Other reduction defects of left lower limb                             | Diagnosis     | ICD-10-CM |
| Q72.893 | Other reduction defects of lower limb, bilateral                       | Diagnosis     | ICD-10-CM |
| Q72.899 | Other reduction defects of unspecified lower limb                      | Diagnosis     | ICD-10-CM |
| Q72.9   | Unspecified reduction defect of lower limb                             | Diagnosis     | ICD-10-CM |
| Q72.90  | Unspecified reduction defect of unspecified lower limb                 | Diagnosis     | ICD-10-CM |
| Q72.91  | Unspecified reduction defect of right lower limb                       | Diagnosis     | ICD-10-CM |
| Q72.92  | Unspecified reduction defect of left lower limb                        | Diagnosis     | ICD-10-CM |
| Q72.93  | Unspecified reduction defect of lower limb, bilateral                  | Diagnosis     | ICD-10-CM |
| Q73.0   | Congenital absence of unspecified limb(s)                              | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| Q73.1   | Phocomelia, unspecified limb(s)  | Diagnosis     | ICD-10-CM |
| Q73.8   | Other reduction defects of unspecified limb(s)                                       | Diagnosis     | ICD-10-CM |
| Q74.0   | Other congenital malformations of upper limb(s), including shoulder girdle           | Diagnosis     | ICD-10-CM |
| Q74.1   | Congenital malformation of knee  | Diagnosis     | ICD-10-CM |
| Q74.2   | Other congenital malformations of lower limb(s), including pelvic girdle             | Diagnosis     | ICD-10-CM |
| Q74.3   | Arthrogryposis multiplex congenita   | Diagnosis     | ICD-10-CM |
| Q74.8   | Other specified congenital malformations of limb(s)                                  | Diagnosis     | ICD-10-CM |
| Q74.9   | Unspecified congenital malformation of limb(s)                                       | Diagnosis     | ICD-10-CM |
| Q75.0   | Craniosynostosis   | Diagnosis     | ICD-10-CM |
| Q75.1   | Craniofacial dysostosis  | Diagnosis     | ICD-10-CM |
| Q75.2   | Hypertelorism  | Diagnosis     | ICD-10-CM |
| Q75.3   | Macrocephaly   | Diagnosis     | ICD-10-CM |
| Q75.4   | Mandibulofacial dysostosis   | Diagnosis     | ICD-10-CM |
| Q75.5   | Oculomandibular dysostosis   | Diagnosis     | ICD-10-CM |
| Q75.8   | Other specified congenital malformations of skull and face bones                     | Diagnosis     | ICD-10-CM |
| Q75.9   | Congenital malformation of skull and face bones, unspecified                         | Diagnosis     | ICD-10-CM |
| Q76.0   | Spina bifida occulta   | Diagnosis     | ICD-10-CM |
| Q76.1   | Klippel-Feil syndrome  | Diagnosis     | ICD-10-CM |
| Q76.2   | Congenital spondylolisthesis   | Diagnosis     | ICD-10-CM |
| Q76.3   | Congenital scoliosis due to congenital bony malformation                             | Diagnosis     | ICD-10-CM |
| Q76.4   | Other congenital malformations of spine, not associated with scoliosis               | Diagnosis     | ICD-10-CM |
| Q76.41  | Congenital kyphosis  | Diagnosis     | ICD-10-CM |
| Q76.411 | Congenital kyphosis, occipito-atlanto-axial region                                   | Diagnosis     | ICD-10-CM |
| Q76.412 | Congenital kyphosis, cervical region   | Diagnosis     | ICD-10-CM |
| Q76.413 | Congenital kyphosis, cervicothoracic region  | Diagnosis     | ICD-10-CM |
| Q76.414 | Congenital kyphosis, thoracic region   | Diagnosis     | ICD-10-CM |
| Q76.415 | Congenital kyphosis, thoracolumbar region  | Diagnosis     | ICD-10-CM |
| Q76.419 | Congenital kyphosis, unspecified region  | Diagnosis     | ICD-10-CM |
| Q76.42  | Congenital lordosis  | Diagnosis     | ICD-10-CM |
| Q76.425 | Congenital lordosis, thoracolumbar region  | Diagnosis     | ICD-10-CM |
| Q76.426 | Congenital lordosis, lumbar region   | Diagnosis     | ICD-10-CM |
| Q76.427 | Congenital lordosis, lumbosacral region  | Diagnosis     | ICD-10-CM |
| Q76.428 | Congenital lordosis, sacral and sacrococcygeal region                                | Diagnosis     | ICD-10-CM |
| Q76.429 | Congenital lordosis, unspecified region  | Diagnosis     | ICD-10-CM |
| Q76.49  | Other congenital malformations of spine, not associated with scoliosis               | Diagnosis     | ICD-10-CM |
| Q76.5   | Cervical rib   | Diagnosis     | ICD-10-CM |
| Q76.6   | Other congenital malformations of ribs   | Diagnosis     | ICD-10-CM |
| Q76.7   | Congenital malformation of sternum   | Diagnosis     | ICD-10-CM |
| Q76.8   | Other congenital malformations of bony thorax  | Diagnosis     | ICD-10-CM |
| Q76.9   | Congenital malformation of bony thorax, unspecified                                  | Diagnosis     | ICD-10-CM |
| Q77.0   | Achondrogenesis  | Diagnosis     | ICD-10-CM |
| Q77.1   | Thanatophoric short stature  | Diagnosis     | ICD-10-CM |
| Q77.2   | Short rib syndrome   | Diagnosis     | ICD-10-CM |
| Q77.3   | Chondrodysplasia punctata  | Diagnosis     | ICD-10-CM |
| Q77.4   | Achondroplasia   | Diagnosis     | ICD-10-CM |
| Q77.5   | Diastrophic dysplasia  | Diagnosis     | ICD-10-CM |
| Q77.6   | Chondroectodermal dysplasia  | Diagnosis     | ICD-10-CM |
| Q77.7   | Spondyloepiphyseal dysplasia   | Diagnosis     | ICD-10-CM |
| Q77.8   | Other osteochondrodysplasia with defects of growth of tubular bones and spine        | Diagnosis     | ICD-10-CM |
| Q77.9   | Osteochondrodysplasia with defects of growth of tubular bones and spine, unspecified | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description  | Code Category | Code Type |
|--------|--|---------------|-----------|
| Q78.0  | Osteogenesis imperfecta  | Diagnosis     | ICD-10-CM |
| Q78.1  | Polyostotic fibrous dysplasia                                  | Diagnosis     | ICD-10-CM |
| Q78.2  | Osteopetrosis  | Diagnosis     | ICD-10-CM |
| Q78.3  | Progressive diaphyseal dysplasia                               | Diagnosis     | ICD-10-CM |
| Q78.4  | Enchondromatosis   | Diagnosis     | ICD-10-CM |
| Q78.5  | Metaphyseal dysplasia  | Diagnosis     | ICD-10-CM |
| Q78.6  | Multiple congenital exostoses                                  | Diagnosis     | ICD-10-CM |
| Q78.8  | Other specified osteochondrodysplasias                         | Diagnosis     | ICD-10-CM |
| Q78.9  | Osteochondrodysplasia, unspecified                             | Diagnosis     | ICD-10-CM |
| Q79.0  | Congenital diaphragmatic hernia                                | Diagnosis     | ICD-10-CM |
| Q79.1  | Other congenital malformations of diaphragm                    | Diagnosis     | ICD-10-CM |
| Q79.2  | Exomphalos   | Diagnosis     | ICD-10-CM |
| Q79.3  | Gastroschisis  | Diagnosis     | ICD-10-CM |
| Q79.4  | Prune belly syndrome   | Diagnosis     | ICD-10-CM |
| Q79.5  | Other congenital malformations of abdominal wall               | Diagnosis     | ICD-10-CM |
| Q79.51 | Congenital hernia of bladder                                   | Diagnosis     | ICD-10-CM |
| Q79.59 | Other congenital malformations of abdominal wall               | Diagnosis     | ICD-10-CM |
| Q79.6  | Ehlers-Danlos syndromes  | Diagnosis     | ICD-10-CM |
| Q79.60 | Ehlers-Danlos syndrome, unspecified                            | Diagnosis     | ICD-10-CM |
| Q79.61 | Classical Ehlers-Danlos syndrome                               | Diagnosis     | ICD-10-CM |
| Q79.62 | Hypermobile Ehlers-Danlos syndrome                             | Diagnosis     | ICD-10-CM |
| Q79.63 | Vascular Ehlers-Danlos syndrome                                | Diagnosis     | ICD-10-CM |
| Q79.69 | Other Ehlers-Danlos syndromes                                  | Diagnosis     | ICD-10-CM |
| Q79.8  | Other congenital malformations of musculoskeletal system       | Diagnosis     | ICD-10-CM |
| Q79.9  | Congenital malformation of musculoskeletal system, unspecified | Diagnosis     | ICD-10-CM |
| Q80.0  | Ichthyosis vulgaris  | Diagnosis     | ICD-10-CM |
| Q80.1  | X-linked ichthyosis  | Diagnosis     | ICD-10-CM |
| Q80.2  | Lamellar ichthyosis  | Diagnosis     | ICD-10-CM |
| Q80.3  | Congenital bullous ichthyosiform erythroderma                  | Diagnosis     | ICD-10-CM |
| Q80.4  | Harlequin fetus  | Diagnosis     | ICD-10-CM |
| Q80.8  | Other congenital ichthyosis                                    | Diagnosis     | ICD-10-CM |
| Q80.9  | Congenital ichthyosis, unspecified                             | Diagnosis     | ICD-10-CM |
| Q81.0  | Epidermolysis bullosa simplex                                  | Diagnosis     | ICD-10-CM |
| Q81.1  | Epidermolysis bullosa letalis                                  | Diagnosis     | ICD-10-CM |
| Q81.2  | Epidermolysis bullosa dystrophica                              | Diagnosis     | ICD-10-CM |
| Q81.8  | Other epidermolysis bullosa                                    | Diagnosis     | ICD-10-CM |
| Q81.9  | Epidermolysis bullosa, unspecified                             | Diagnosis     | ICD-10-CM |
| Q82.0  | Hereditary lymphedema  | Diagnosis     | ICD-10-CM |
| Q82.1  | Xeroderma pigmentosum  | Diagnosis     | ICD-10-CM |
| Q82.2  | Congenital cutaneous mastocytosis                              | Diagnosis     | ICD-10-CM |
| Q82.3  | Incontinentia pigmenti   | Diagnosis     | ICD-10-CM |
| Q82.4  | Ectodermal dysplasia (anhidrotic)                              | Diagnosis     | ICD-10-CM |
| Q82.5  | Congenital non-neoplastic nevus                                | Diagnosis     | ICD-10-CM |
| Q82.6  | Congenital sacral dimple                                       | Diagnosis     | ICD-10-CM |
| Q82.8  | Other specified congenital malformations of skin               | Diagnosis     | ICD-10-CM |
| Q82.9  | Congenital malformation of skin, unspecified                   | Diagnosis     | ICD-10-CM |
| Q83.0  | Congenital absence of breast with absent nipple                | Diagnosis     | ICD-10-CM |
| Q83.1  | Accessory breast   | Diagnosis     | ICD-10-CM |
| Q83.2  | Absent nipple  | Diagnosis     | ICD-10-CM |
| Q83.3  | Accessory nipple   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| Q83.8   | Other congenital malformations of breast  | Diagnosis     | ICD-10-CM |
| Q83.9   | Congenital malformation of breast, unspecified                                      | Diagnosis     | ICD-10-CM |
| Q84.0   | Congenital alopecia   | Diagnosis     | ICD-10-CM |
| Q84.1   | Congenital morphological disturbances of hair, not elsewhere classified             | Diagnosis     | ICD-10-CM |
| Q84.2   | Other congenital malformations of hair  | Diagnosis     | ICD-10-CM |
| Q84.3   | Anonychia   | Diagnosis     | ICD-10-CM |
| Q84.4   | Congenital leukonychia  | Diagnosis     | ICD-10-CM |
| Q84.5   | Enlarged and hypertrophic nails   | Diagnosis     | ICD-10-CM |
| Q84.6   | Other congenital malformations of nails   | Diagnosis     | ICD-10-CM |
| Q84.8   | Other specified congenital malformations of integument                              | Diagnosis     | ICD-10-CM |
| Q84.9   | Congenital malformation of integument, unspecified                                  | Diagnosis     | ICD-10-CM |
| Q85.0   | Neurofibromatosis (nonmalignant)  | Diagnosis     | ICD-10-CM |
| Q85.00  | Neurofibromatosis, unspecified  | Diagnosis     | ICD-10-CM |
| Q85.01  | Neurofibromatosis, type 1   | Diagnosis     | ICD-10-CM |
| Q85.02  | Neurofibromatosis, type 2   | Diagnosis     | ICD-10-CM |
| Q85.03  | Schwannomatosis   | Diagnosis     | ICD-10-CM |
| Q85.09  | Other neurofibromatosis   | Diagnosis     | ICD-10-CM |
| Q85.1   | Tuberous sclerosis  | Diagnosis     | ICD-10-CM |
| Q85.8   | Other phakomatoses, not elsewhere classified  | Diagnosis     | ICD-10-CM |
| Q85.81  | PTEN hamartoma tumor syndrome   | Diagnosis     | ICD-10-CM |
| Q85.82  | Other Cowden syndrome   | Diagnosis     | ICD-10-CM |
| Q85.83  | Von Hippel-Lindau syndrome  | Diagnosis     | ICD-10-CM |
| Q85.89  | Other phakomatoses, not elsewhere classified  | Diagnosis     | ICD-10-CM |
| Q85.9   | Phakomatosis, unspecified   | Diagnosis     | ICD-10-CM |
| Q86.0   | Fetal alcohol syndrome (dysmorphic)   | Diagnosis     | ICD-10-CM |
| Q86.1   | Fetal hydantoin syndrome  | Diagnosis     | ICD-10-CM |
| Q86.2   | Dysmorphism due to warfarin   | Diagnosis     | ICD-10-CM |
| Q86.8   | Other congenital malformation syndromes due to known exogenous causes               | Diagnosis     | ICD-10-CM |
| Q87.0   | Congenital malformation syndromes predominantly affecting facial appearance         | Diagnosis     | ICD-10-CM |
| Q87.1   | Congenital malformation syndromes predominantly associated with short stature       | Diagnosis     | ICD-10-CM |
| Q87.11  | Prader-Willi syndrome   | Diagnosis     | ICD-10-CM |
| Q87.19  | Other congenital malformation syndromes predominantly associated with short stature | Diagnosis     | ICD-10-CM |
| Q87.2   | Congenital malformation syndromes predominantly involving limbs                     | Diagnosis     | ICD-10-CM |
| Q87.3   | Congenital malformation syndromes involving early overgrowth                        | Diagnosis     | ICD-10-CM |
| Q87.4   | Marfan syndrome   | Diagnosis     | ICD-10-CM |
| Q87.40  | Marfan syndrome, unspecified  | Diagnosis     | ICD-10-CM |
| Q87.41  | Marfan syndrome with cardiovascular manifestations                                  | Diagnosis     | ICD-10-CM |
| Q87.410 | Marfan syndrome with aortic dilation  | Diagnosis     | ICD-10-CM |
| Q87.418 | Marfan syndrome with other cardiovascular manifestations                            | Diagnosis     | ICD-10-CM |
| Q87.42  | Marfan syndrome with ocular manifestations  | Diagnosis     | ICD-10-CM |
| Q87.43  | Marfan syndrome with skeletal manifestation   | Diagnosis     | ICD-10-CM |
| Q87.5   | Other congenital malformation syndromes with other skeletal changes                 | Diagnosis     | ICD-10-CM |
| Q87.8   | Other specified congenital malformation syndromes, not elsewhere classified         | Diagnosis     | ICD-10-CM |
| Q87.81  | Alport syndrome   | Diagnosis     | ICD-10-CM |
| Q87.82  | Arterial tortuosity syndrome  | Diagnosis     | ICD-10-CM |
| Q87.89  | Other specified congenital malformation syndromes, not elsewhere classified         | Diagnosis     | ICD-10-CM |
| Q89.0   | Congenital absence and malformations of spleen                                      | Diagnosis     | ICD-10-CM |
| Q89.01  | Asplenia (congenital)   | Diagnosis     | ICD-10-CM |
| Q89.09  | Congenital malformations of spleen  | Diagnosis     | ICD-10-CM |
| Q89.1   | Congenital malformations of adrenal gland   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code                        | Description   | Code Category | Code Type |
|-----------------------------|---|---------------|-----------|
| Q89.2                       | Congenital malformations of other endocrine glands                                    | Diagnosis     | ICD-10-CM |
| Q89.3                       | Situs inversus  | Diagnosis     | ICD-10-CM |
| Q89.4                       | Conjoined twins   | Diagnosis     | ICD-10-CM |
| Q89.7                       | Multiple congenital malformations, not elsewhere classified                           | Diagnosis     | ICD-10-CM |
| Q89.8                       | Other specified congenital malformations  | Diagnosis     | ICD-10-CM |
| Q89.9                       | Congenital malformation, unspecified  | Diagnosis     | ICD-10-CM |
| <b>Depression</b>           |   |               |           |
| F06.30                      | Mood disorder due to known physiological condition, unspecified                       | Diagnosis     | ICD-10-CM |
| F06.31                      | Mood disorder due to known physiological condition with depressive features           | Diagnosis     | ICD-10-CM |
| F06.32                      | Mood disorder due to known physiological condition with major depressive-like episode | Diagnosis     | ICD-10-CM |
| F32.0                       | Major depressive disorder, single episode, mild                                       | Diagnosis     | ICD-10-CM |
| F32.1                       | Major depressive disorder, single episode, moderate                                   | Diagnosis     | ICD-10-CM |
| F32.2                       | Major depressive disorder, single episode, severe without psychotic features          | Diagnosis     | ICD-10-CM |
| F32.3                       | Major depressive disorder, single episode, severe with psychotic features             | Diagnosis     | ICD-10-CM |
| F32.4                       | Major depressive disorder, single episode, in partial remission                       | Diagnosis     | ICD-10-CM |
| F32.5                       | Major depressive disorder, single episode, in full remission                          | Diagnosis     | ICD-10-CM |
| F32.8                       | Other depressive episodes   | Diagnosis     | ICD-10-CM |
| F32.81                      | Premenstrual dysphoric disorder   | Diagnosis     | ICD-10-CM |
| F32.89                      | Other specified depressive episodes   | Diagnosis     | ICD-10-CM |
| F32.9                       | Major depressive disorder, single episode, unspecified                                | Diagnosis     | ICD-10-CM |
| F32.A                       | Depression, unspecified   | Diagnosis     | ICD-10-CM |
| F33.0                       | Major depressive disorder, recurrent, mild  | Diagnosis     | ICD-10-CM |
| F33.1                       | Major depressive disorder, recurrent, moderate  | Diagnosis     | ICD-10-CM |
| F33.2                       | Major depressive disorder, recurrent severe without psychotic features                | Diagnosis     | ICD-10-CM |
| F33.3                       | Major depressive disorder, recurrent, severe with psychotic symptoms                  | Diagnosis     | ICD-10-CM |
| F33.4                       | Major depressive disorder, recurrent, in remission                                    | Diagnosis     | ICD-10-CM |
| F33.40                      | Major depressive disorder, recurrent, in remission, unspecified                       | Diagnosis     | ICD-10-CM |
| F33.41                      | Major depressive disorder, recurrent, in partial remission                            | Diagnosis     | ICD-10-CM |
| F33.42                      | Major depressive disorder, recurrent, in full remission                               | Diagnosis     | ICD-10-CM |
| F33.8                       | Other recurrent depressive disorders  | Diagnosis     | ICD-10-CM |
| F33.9                       | Major depressive disorder, recurrent, unspecified                                     | Diagnosis     | ICD-10-CM |
| F34.9                       | Persistent mood [affective] disorder, unspecified                                     | Diagnosis     | ICD-10-CM |
| F39                         | Unspecified mood [affective] disorder   | Diagnosis     | ICD-10-CM |
| F43.21                      | Adjustment disorder with depressed mood   | Diagnosis     | ICD-10-CM |
| F43.23                      | Adjustment disorder with mixed anxiety and depressed mood                             | Diagnosis     | ICD-10-CM |
| <b>Developmental Delays</b> |   |               |           |
| F70                         | Mild intellectual disabilities  | Diagnosis     | ICD-10-CM |
| F71                         | Moderate intellectual disabilities  | Diagnosis     | ICD-10-CM |
| F72                         | Severe intellectual disabilities  | Diagnosis     | ICD-10-CM |
| F78                         | Other intellectual disabilities   | Diagnosis     | ICD-10-CM |
| F79                         | Unspecified intellectual disabilities   | Diagnosis     | ICD-10-CM |
| F80.0                       | Phonological disorder   | Diagnosis     | ICD-10-CM |
| F80.1                       | Expressive language disorder  | Diagnosis     | ICD-10-CM |
| F80.2                       | Mixed receptive-expressive language disorder  | Diagnosis     | ICD-10-CM |
| F80.4                       | Speech and language development delay due to hearing loss                             | Diagnosis     | ICD-10-CM |
| F80.8                       | Other developmental disorders of speech and language                                  | Diagnosis     | ICD-10-CM |
| F80.81                      | Childhood onset fluency disorder  | Diagnosis     | ICD-10-CM |
| F80.82                      | Social pragmatic communication disorder   | Diagnosis     | ICD-10-CM |
| F80.89                      | Other developmental disorders of speech and language                                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code                     | Description   | Code Category | Code Type |
|--------------------------|---|---------------|-----------|
| F80.9                    | Developmental disorder of speech and language, unspecified  | Diagnosis     | ICD-10-CM |
| F81.0                    | Specific reading disorder   | Diagnosis     | ICD-10-CM |
| F81.2                    | Mathematics disorder  | Diagnosis     | ICD-10-CM |
| F81.8                    | Other developmental disorders of scholastic skills  | Diagnosis     | ICD-10-CM |
| F81.81                   | Disorder of written expression  | Diagnosis     | ICD-10-CM |
| F81.89                   | Other developmental disorders of scholastic skills  | Diagnosis     | ICD-10-CM |
| F81.9                    | Developmental disorder of scholastic skills, unspecified  | Diagnosis     | ICD-10-CM |
| F82                      | Specific developmental disorder of motor function   | Diagnosis     | ICD-10-CM |
| F88                      | Other disorders of psychological development  | Diagnosis     | ICD-10-CM |
| F89                      | Unspecified disorder of psychological development   | Diagnosis     | ICD-10-CM |
| H93.25                   | Central auditory processing disorder  | Diagnosis     | ICD-10-CM |
| R48.0                    | Dyslexia and alexia   | Diagnosis     | ICD-10-CM |
| <b>Diabetes mellitus</b> |   |               |           |
| E08.0                    | Diabetes mellitus due to underlying condition with hyperosmolality  | Diagnosis     | ICD-10-CM |
| E08.00                   | Diabetes mellitus due to underlying condition with hyperosmolality without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)     | Diagnosis     | ICD-10-CM |
| E08.01                   | Diabetes mellitus due to underlying condition with hyperosmolality with coma  | Diagnosis     | ICD-10-CM |
| E08.1                    | Diabetes mellitus due to underlying condition with ketoacidosis   | Diagnosis     | ICD-10-CM |
| E08.10                   | Diabetes mellitus due to underlying condition with ketoacidosis without coma  | Diagnosis     | ICD-10-CM |
| E08.11                   | Diabetes mellitus due to underlying condition with ketoacidosis with coma   | Diagnosis     | ICD-10-CM |
| E08.2                    | Diabetes mellitus due to underlying condition with kidney complications   | Diagnosis     | ICD-10-CM |
| E08.21                   | Diabetes mellitus due to underlying condition with diabetic nephropathy   | Diagnosis     | ICD-10-CM |
| E08.22                   | Diabetes mellitus due to underlying condition with diabetic chronic kidney disease  | Diagnosis     | ICD-10-CM |
| E08.29                   | Diabetes mellitus due to underlying condition with other diabetic kidney complication   | Diagnosis     | ICD-10-CM |
| E08.3                    | Diabetes mellitus due to underlying condition with ophthalmic complications   | Diagnosis     | ICD-10-CM |
| E08.31                   | Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy   | Diagnosis     | ICD-10-CM |
| E08.311                  | Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy with macular edema                            | Diagnosis     | ICD-10-CM |
| E08.319                  | Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy without macular edema                         | Diagnosis     | ICD-10-CM |
| E08.32                   | Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy                                     | Diagnosis     | ICD-10-CM |
| E08.321                  | Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema                  | Diagnosis     | ICD-10-CM |
| E08.3211                 | Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, right eye       | Diagnosis     | ICD-10-CM |
| E08.3212                 | Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, left eye        | Diagnosis     | ICD-10-CM |
| E08.3213                 | Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, bilateral       | Diagnosis     | ICD-10-CM |
| E08.3219                 | Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye | Diagnosis     | ICD-10-CM |
| E08.329                  | Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema               | Diagnosis     | ICD-10-CM |
| E08.3291                 | Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, right eye    | Diagnosis     | ICD-10-CM |
| E08.3292                 | Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, left eye     | Diagnosis     | ICD-10-CM |
| E08.3293                 | Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, bilateral    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| E08.3299 | Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye     | Diagnosis     | ICD-10-CM |
| E08.33   | Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy  | Diagnosis     | ICD-10-CM |
| E08.331  | Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema                     | Diagnosis     | ICD-10-CM |
| E08.3311 | Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, right eye          | Diagnosis     | ICD-10-CM |
| E08.3312 | Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, left eye           | Diagnosis     | ICD-10-CM |
| E08.3313 | Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, bilateral          | Diagnosis     | ICD-10-CM |
| E08.3319 | Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye    | Diagnosis     | ICD-10-CM |
| E08.339  | Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema                  | Diagnosis     | ICD-10-CM |
| E08.3391 | Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, right eye       | Diagnosis     | ICD-10-CM |
| E08.3392 | Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, left eye        | Diagnosis     | ICD-10-CM |
| E08.3393 | Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, bilateral       | Diagnosis     | ICD-10-CM |
| E08.3399 | Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye | Diagnosis     | ICD-10-CM |
| E08.34   | Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy  | Diagnosis     | ICD-10-CM |
| E08.341  | Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema                       | Diagnosis     | ICD-10-CM |
| E08.3411 | Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, right eye            | Diagnosis     | ICD-10-CM |
| E08.3412 | Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, left eye             | Diagnosis     | ICD-10-CM |
| E08.3413 | Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, bilateral            | Diagnosis     | ICD-10-CM |
| E08.3419 | Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye      | Diagnosis     | ICD-10-CM |
| E08.349  | Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema                    | Diagnosis     | ICD-10-CM |
| E08.3491 | Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, right eye         | Diagnosis     | ICD-10-CM |
| E08.3492 | Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, left eye          | Diagnosis     | ICD-10-CM |
| E08.3493 | Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, bilateral         | Diagnosis     | ICD-10-CM |
| E08.3499 | Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye   | Diagnosis     | ICD-10-CM |
| E08.35   | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy  | Diagnosis     | ICD-10-CM |
| E08.351  | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema                                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| E08.3511 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, right eye  | Diagnosis     | ICD-10-CM |
| E08.3512 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, left eye   | Diagnosis     | ICD-10-CM |
| E08.3513 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, bilateral  | Diagnosis     | ICD-10-CM |
| E08.3519 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, unspecified eye  | Diagnosis     | ICD-10-CM |
| E08.352  | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula  | Diagnosis     | ICD-10-CM |
| E08.3521 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye                                 | Diagnosis     | ICD-10-CM |
| E08.3522 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye                                  | Diagnosis     | ICD-10-CM |
| E08.3523 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral                                 | Diagnosis     | ICD-10-CM |
| E08.3529 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye                           | Diagnosis     | ICD-10-CM |
| E08.353  | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula  | Diagnosis     | ICD-10-CM |
| E08.3531 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye                             | Diagnosis     | ICD-10-CM |
| E08.3532 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye                              | Diagnosis     | ICD-10-CM |
| E08.3533 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral                             | Diagnosis     | ICD-10-CM |
| E08.3539 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye                       | Diagnosis     | ICD-10-CM |
| E08.354  | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment                  | Diagnosis     | ICD-10-CM |
| E08.3541 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye       | Diagnosis     | ICD-10-CM |
| E08.3542 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye        | Diagnosis     | ICD-10-CM |
| E08.3543 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral       | Diagnosis     | ICD-10-CM |
| E08.3549 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye | Diagnosis     | ICD-10-CM |
| E08.355  | Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy   | Diagnosis     | ICD-10-CM |
| E08.3551 | Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, right eye  | Diagnosis     | ICD-10-CM |
| E08.3552 | Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, left eye   | Diagnosis     | ICD-10-CM |
| E08.3553 | Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, bilateral  | Diagnosis     | ICD-10-CM |
| E08.3559 | Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, unspecified eye  | Diagnosis     | ICD-10-CM |
| E08.359  | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| E08.3591 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, right eye       | Diagnosis     | ICD-10-CM |
| E08.3592 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, left eye        | Diagnosis     | ICD-10-CM |
| E08.3593 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, bilateral       | Diagnosis     | ICD-10-CM |
| E08.3599 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, unspecified eye | Diagnosis     | ICD-10-CM |
| E08.36   | Diabetes mellitus due to underlying condition with diabetic cataract   | Diagnosis     | ICD-10-CM |
| E08.37   | Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment                      | Diagnosis     | ICD-10-CM |
| E08.37X1 | Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, right eye           | Diagnosis     | ICD-10-CM |
| E08.37X2 | Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, left eye            | Diagnosis     | ICD-10-CM |
| E08.37X3 | Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, bilateral           | Diagnosis     | ICD-10-CM |
| E08.37X9 | Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, unspecified eye     | Diagnosis     | ICD-10-CM |
| E08.39   | Diabetes mellitus due to underlying condition with other diabetic ophthalmic complication                                    | Diagnosis     | ICD-10-CM |
| E08.4    | Diabetes mellitus due to underlying condition with neurological complications  | Diagnosis     | ICD-10-CM |
| E08.40   | Diabetes mellitus due to underlying condition with diabetic neuropathy, unspecified  | Diagnosis     | ICD-10-CM |
| E08.41   | Diabetes mellitus due to underlying condition with diabetic mononeuropathy   | Diagnosis     | ICD-10-CM |
| E08.42   | Diabetes mellitus due to underlying condition with diabetic polyneuropathy   | Diagnosis     | ICD-10-CM |
| E08.43   | Diabetes mellitus due to underlying condition with diabetic autonomic (poly)neuropathy                                       | Diagnosis     | ICD-10-CM |
| E08.44   | Diabetes mellitus due to underlying condition with diabetic amyotrophy   | Diagnosis     | ICD-10-CM |
| E08.49   | Diabetes mellitus due to underlying condition with other diabetic neurological complication                                  | Diagnosis     | ICD-10-CM |
| E08.5    | Diabetes mellitus due to underlying condition with circulatory complications   | Diagnosis     | ICD-10-CM |
| E08.51   | Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy without gangrene                           | Diagnosis     | ICD-10-CM |
| E08.52   | Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy with gangrene                              | Diagnosis     | ICD-10-CM |
| E08.59   | Diabetes mellitus due to underlying condition with other circulatory complications   | Diagnosis     | ICD-10-CM |
| E08.6    | Diabetes mellitus due to underlying condition with other specified complications   | Diagnosis     | ICD-10-CM |
| E08.61   | Diabetes mellitus due to underlying condition with diabetic arthropathy  | Diagnosis     | ICD-10-CM |
| E08.610  | Diabetes mellitus due to underlying condition with diabetic neuropathic arthropathy  | Diagnosis     | ICD-10-CM |
| E08.618  | Diabetes mellitus due to underlying condition with other diabetic arthropathy  | Diagnosis     | ICD-10-CM |
| E08.62   | Diabetes mellitus due to underlying condition with skin complications  | Diagnosis     | ICD-10-CM |
| E08.620  | Diabetes mellitus due to underlying condition with diabetic dermatitis   | Diagnosis     | ICD-10-CM |
| E08.621  | Diabetes mellitus due to underlying condition with foot ulcer  | Diagnosis     | ICD-10-CM |
| E08.622  | Diabetes mellitus due to underlying condition with other skin ulcer  | Diagnosis     | ICD-10-CM |
| E08.628  | Diabetes mellitus due to underlying condition with other skin complications  | Diagnosis     | ICD-10-CM |
| E08.63   | Diabetes mellitus due to underlying condition with oral complications  | Diagnosis     | ICD-10-CM |
| E08.630  | Diabetes mellitus due to underlying condition with periodontal disease   | Diagnosis     | ICD-10-CM |
| E08.638  | Diabetes mellitus due to underlying condition with other oral complications  | Diagnosis     | ICD-10-CM |
| E08.64   | Diabetes mellitus due to underlying condition with hypoglycemia  | Diagnosis     | ICD-10-CM |
| E08.641  | Diabetes mellitus due to underlying condition with hypoglycemia with coma  | Diagnosis     | ICD-10-CM |
| E08.649  | Diabetes mellitus due to underlying condition with hypoglycemia without coma   | Diagnosis     | ICD-10-CM |
| E08.65   | Diabetes mellitus due to underlying condition with hyperglycemia   | Diagnosis     | ICD-10-CM |
| E08.69   | Diabetes mellitus due to underlying condition with other specified complication  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| E08.8    | Diabetes mellitus due to underlying condition with unspecified complications  | Diagnosis     | ICD-10-CM |
| E08.9    | Diabetes mellitus due to underlying condition without complications   | Diagnosis     | ICD-10-CM |
| E09.0    | Drug or chemical induced diabetes mellitus with hyperosmolarity   | Diagnosis     | ICD-10-CM |
| E09.00   | Drug or chemical induced diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)        | Diagnosis     | ICD-10-CM |
| E09.01   | Drug or chemical induced diabetes mellitus with hyperosmolarity with coma   | Diagnosis     | ICD-10-CM |
| E09.1    | Drug or chemical induced diabetes mellitus with ketoacidosis  | Diagnosis     | ICD-10-CM |
| E09.10   | Drug or chemical induced diabetes mellitus with ketoacidosis without coma   | Diagnosis     | ICD-10-CM |
| E09.11   | Drug or chemical induced diabetes mellitus with ketoacidosis with coma  | Diagnosis     | ICD-10-CM |
| E09.2    | Drug or chemical induced diabetes mellitus with kidney complications  | Diagnosis     | ICD-10-CM |
| E09.21   | Drug or chemical induced diabetes mellitus with diabetic nephropathy  | Diagnosis     | ICD-10-CM |
| E09.22   | Drug or chemical induced diabetes mellitus with diabetic chronic kidney disease   | Diagnosis     | ICD-10-CM |
| E09.29   | Drug or chemical induced diabetes mellitus with other diabetic kidney complication  | Diagnosis     | ICD-10-CM |
| E09.3    | Drug or chemical induced diabetes mellitus with ophthalmic complications  | Diagnosis     | ICD-10-CM |
| E09.31   | Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy  | Diagnosis     | ICD-10-CM |
| E09.311  | Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy with macular edema                               | Diagnosis     | ICD-10-CM |
| E09.319  | Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy without macular edema                            | Diagnosis     | ICD-10-CM |
| E09.32   | Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy  | Diagnosis     | ICD-10-CM |
| E09.321  | Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema                     | Diagnosis     | ICD-10-CM |
| E09.3211 | Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye          | Diagnosis     | ICD-10-CM |
| E09.3212 | Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye           | Diagnosis     | ICD-10-CM |
| E09.3213 | Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral          | Diagnosis     | ICD-10-CM |
| E09.3219 | Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye    | Diagnosis     | ICD-10-CM |
| E09.329  | Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema                  | Diagnosis     | ICD-10-CM |
| E09.3291 | Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye       | Diagnosis     | ICD-10-CM |
| E09.3292 | Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye        | Diagnosis     | ICD-10-CM |
| E09.3293 | Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral       | Diagnosis     | ICD-10-CM |
| E09.3299 | Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye | Diagnosis     | ICD-10-CM |
| E09.33   | Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy                                    | Diagnosis     | ICD-10-CM |
| E09.331  | Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema                 | Diagnosis     | ICD-10-CM |
| E09.3311 | Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye      | Diagnosis     | ICD-10-CM |
| E09.3312 | Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye       | Diagnosis     | ICD-10-CM |
| E09.3313 | Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| E09.3319 | Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye                  | Diagnosis     | ICD-10-CM |
| E09.339  | Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema                                | Diagnosis     | ICD-10-CM |
| E09.3391 | Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye                     | Diagnosis     | ICD-10-CM |
| E09.3392 | Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye                      | Diagnosis     | ICD-10-CM |
| E09.3393 | Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral                     | Diagnosis     | ICD-10-CM |
| E09.3399 | Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye               | Diagnosis     | ICD-10-CM |
| E09.34   | Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy  | Diagnosis     | ICD-10-CM |
| E09.341  | Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema                                     | Diagnosis     | ICD-10-CM |
| E09.3411 | Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye                          | Diagnosis     | ICD-10-CM |
| E09.3412 | Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye                           | Diagnosis     | ICD-10-CM |
| E09.3413 | Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral                          | Diagnosis     | ICD-10-CM |
| E09.3419 | Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye                    | Diagnosis     | ICD-10-CM |
| E09.349  | Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema                                  | Diagnosis     | ICD-10-CM |
| E09.3491 | Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye                       | Diagnosis     | ICD-10-CM |
| E09.3492 | Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye                        | Diagnosis     | ICD-10-CM |
| E09.3493 | Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral                       | Diagnosis     | ICD-10-CM |
| E09.3499 | Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye                 | Diagnosis     | ICD-10-CM |
| E09.35   | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy  | Diagnosis     | ICD-10-CM |
| E09.351  | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema   | Diagnosis     | ICD-10-CM |
| E09.3511 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye                                    | Diagnosis     | ICD-10-CM |
| E09.3512 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye                                     | Diagnosis     | ICD-10-CM |
| E09.3513 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral                                    | Diagnosis     | ICD-10-CM |
| E09.3519 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye                              | Diagnosis     | ICD-10-CM |
| E09.352  | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula            | Diagnosis     | ICD-10-CM |
| E09.3521 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| E09.3522 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye                                  | Diagnosis     | ICD-10-CM |
| E09.3523 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral                                 | Diagnosis     | ICD-10-CM |
| E09.3529 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye                           | Diagnosis     | ICD-10-CM |
| E09.353  | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula  | Diagnosis     | ICD-10-CM |
| E09.3531 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye                             | Diagnosis     | ICD-10-CM |
| E09.3532 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye                              | Diagnosis     | ICD-10-CM |
| E09.3533 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral                             | Diagnosis     | ICD-10-CM |
| E09.3539 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye                       | Diagnosis     | ICD-10-CM |
| E09.354  | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment                  | Diagnosis     | ICD-10-CM |
| E09.3541 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye       | Diagnosis     | ICD-10-CM |
| E09.3542 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye        | Diagnosis     | ICD-10-CM |
| E09.3543 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral       | Diagnosis     | ICD-10-CM |
| E09.3549 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye | Diagnosis     | ICD-10-CM |
| E09.355  | Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy   | Diagnosis     | ICD-10-CM |
| E09.3551 | Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, right eye  | Diagnosis     | ICD-10-CM |
| E09.3552 | Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, left eye   | Diagnosis     | ICD-10-CM |
| E09.3553 | Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, bilateral  | Diagnosis     | ICD-10-CM |
| E09.3559 | Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye  | Diagnosis     | ICD-10-CM |
| E09.359  | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema  | Diagnosis     | ICD-10-CM |
| E09.3591 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye   | Diagnosis     | ICD-10-CM |
| E09.3592 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye  | Diagnosis     | ICD-10-CM |
| E09.3593 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral   | Diagnosis     | ICD-10-CM |
| E09.3599 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye   | Diagnosis     | ICD-10-CM |
| E09.36   | Drug or chemical induced diabetes mellitus with diabetic cataract   | Diagnosis     | ICD-10-CM |
| E09.37   | Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| E09.37X1 | Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, right eye          | Diagnosis     | ICD-10-CM |
| E09.37X2 | Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, left eye           | Diagnosis     | ICD-10-CM |
| E09.37X3 | Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral          | Diagnosis     | ICD-10-CM |
| E09.37X9 | Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye    | Diagnosis     | ICD-10-CM |
| E09.39   | Drug or chemical induced diabetes mellitus with other diabetic ophthalmic complication                                   | Diagnosis     | ICD-10-CM |
| E09.4    | Drug or chemical induced diabetes mellitus with neurological complications   | Diagnosis     | ICD-10-CM |
| E09.40   | Drug or chemical induced diabetes mellitus with neurological complications with diabetic neuropathy, unspecified         | Diagnosis     | ICD-10-CM |
| E09.41   | Drug or chemical induced diabetes mellitus with neurological complications with diabetic mononeuropathy                  | Diagnosis     | ICD-10-CM |
| E09.42   | Drug or chemical induced diabetes mellitus with neurological complications with diabetic polyneuropathy                  | Diagnosis     | ICD-10-CM |
| E09.43   | Drug or chemical induced diabetes mellitus with neurological complications with diabetic autonomic (poly)neuropathy      | Diagnosis     | ICD-10-CM |
| E09.44   | Drug or chemical induced diabetes mellitus with neurological complications with diabetic amyotrophy                      | Diagnosis     | ICD-10-CM |
| E09.49   | Drug or chemical induced diabetes mellitus with neurological complications with other diabetic neurological complication | Diagnosis     | ICD-10-CM |
| E09.5    | Drug or chemical induced diabetes mellitus with circulatory complications  | Diagnosis     | ICD-10-CM |
| E09.51   | Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy without gangrene                          | Diagnosis     | ICD-10-CM |
| E09.52   | Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy with gangrene                             | Diagnosis     | ICD-10-CM |
| E09.59   | Drug or chemical induced diabetes mellitus with other circulatory complications  | Diagnosis     | ICD-10-CM |
| E09.6    | Drug or chemical induced diabetes mellitus with other specified complications  | Diagnosis     | ICD-10-CM |
| E09.61   | Drug or chemical induced diabetes mellitus with diabetic arthropathy   | Diagnosis     | ICD-10-CM |
| E09.610  | Drug or chemical induced diabetes mellitus with diabetic neuropathic arthropathy   | Diagnosis     | ICD-10-CM |
| E09.618  | Drug or chemical induced diabetes mellitus with other diabetic arthropathy   | Diagnosis     | ICD-10-CM |
| E09.62   | Drug or chemical induced diabetes mellitus with skin complications   | Diagnosis     | ICD-10-CM |
| E09.620  | Drug or chemical induced diabetes mellitus with diabetic dermatitis  | Diagnosis     | ICD-10-CM |
| E09.621  | Drug or chemical induced diabetes mellitus with foot ulcer   | Diagnosis     | ICD-10-CM |
| E09.622  | Drug or chemical induced diabetes mellitus with other skin ulcer   | Diagnosis     | ICD-10-CM |
| E09.628  | Drug or chemical induced diabetes mellitus with other skin complications   | Diagnosis     | ICD-10-CM |
| E09.63   | Drug or chemical induced diabetes mellitus with oral complications   | Diagnosis     | ICD-10-CM |
| E09.630  | Drug or chemical induced diabetes mellitus with periodontal disease  | Diagnosis     | ICD-10-CM |
| E09.638  | Drug or chemical induced diabetes mellitus with other oral complications   | Diagnosis     | ICD-10-CM |
| E09.64   | Drug or chemical induced diabetes mellitus with hypoglycemia   | Diagnosis     | ICD-10-CM |
| E09.641  | Drug or chemical induced diabetes mellitus with hypoglycemia with coma   | Diagnosis     | ICD-10-CM |
| E09.649  | Drug or chemical induced diabetes mellitus with hypoglycemia without coma  | Diagnosis     | ICD-10-CM |
| E09.65   | Drug or chemical induced diabetes mellitus with hyperglycemia  | Diagnosis     | ICD-10-CM |
| E09.69   | Drug or chemical induced diabetes mellitus with other specified complication   | Diagnosis     | ICD-10-CM |
| E09.8    | Drug or chemical induced diabetes mellitus with unspecified complications  | Diagnosis     | ICD-10-CM |
| E09.9    | Drug or chemical induced diabetes mellitus without complications   | Diagnosis     | ICD-10-CM |
| E10.1    | Type 1 diabetes mellitus with ketoacidosis   | Diagnosis     | ICD-10-CM |
| E10.10   | Type 1 diabetes mellitus with ketoacidosis without coma  | Diagnosis     | ICD-10-CM |
| E10.11   | Type 1 diabetes mellitus with ketoacidosis with coma   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| E10.2    | Type 1 diabetes mellitus with kidney complications  | Diagnosis     | ICD-10-CM |
| E10.21   | Type 1 diabetes mellitus with diabetic nephropathy  | Diagnosis     | ICD-10-CM |
| E10.22   | Type 1 diabetes mellitus with diabetic chronic kidney disease   | Diagnosis     | ICD-10-CM |
| E10.29   | Type 1 diabetes mellitus with other diabetic kidney complication  | Diagnosis     | ICD-10-CM |
| E10.3    | Type 1 diabetes mellitus with ophthalmic complications  | Diagnosis     | ICD-10-CM |
| E10.31   | Type 1 diabetes mellitus with unspecified diabetic retinopathy  | Diagnosis     | ICD-10-CM |
| E10.311  | Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema                                   | Diagnosis     | ICD-10-CM |
| E10.319  | Type 1 diabetes mellitus with unspecified diabetic retinopathy without macular edema                                | Diagnosis     | ICD-10-CM |
| E10.32   | Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy  | Diagnosis     | ICD-10-CM |
| E10.321  | Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema                         | Diagnosis     | ICD-10-CM |
| E10.3211 | Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye              | Diagnosis     | ICD-10-CM |
| E10.3212 | Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye               | Diagnosis     | ICD-10-CM |
| E10.3213 | Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral              | Diagnosis     | ICD-10-CM |
| E10.3219 | Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye        | Diagnosis     | ICD-10-CM |
| E10.329  | Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema                      | Diagnosis     | ICD-10-CM |
| E10.3291 | Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye           | Diagnosis     | ICD-10-CM |
| E10.3292 | Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye            | Diagnosis     | ICD-10-CM |
| E10.3293 | Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral           | Diagnosis     | ICD-10-CM |
| E10.3299 | Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye     | Diagnosis     | ICD-10-CM |
| E10.33   | Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy  | Diagnosis     | ICD-10-CM |
| E10.331  | Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema                     | Diagnosis     | ICD-10-CM |
| E10.3311 | Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye          | Diagnosis     | ICD-10-CM |
| E10.3312 | Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye           | Diagnosis     | ICD-10-CM |
| E10.3313 | Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral          | Diagnosis     | ICD-10-CM |
| E10.3319 | Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye    | Diagnosis     | ICD-10-CM |
| E10.339  | Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema                  | Diagnosis     | ICD-10-CM |
| E10.3391 | Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye       | Diagnosis     | ICD-10-CM |
| E10.3392 | Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye        | Diagnosis     | ICD-10-CM |
| E10.3393 | Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral       | Diagnosis     | ICD-10-CM |
| E10.3399 | Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| E10.34   | Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy  | Diagnosis     | ICD-10-CM |
| E10.341  | Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema   | Diagnosis     | ICD-10-CM |
| E10.3411 | Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye                                    | Diagnosis     | ICD-10-CM |
| E10.3412 | Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye                                     | Diagnosis     | ICD-10-CM |
| E10.3413 | Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral                                    | Diagnosis     | ICD-10-CM |
| E10.3419 | Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye                              | Diagnosis     | ICD-10-CM |
| E10.349  | Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema  | Diagnosis     | ICD-10-CM |
| E10.3491 | Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye                                 | Diagnosis     | ICD-10-CM |
| E10.3492 | Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye                                  | Diagnosis     | ICD-10-CM |
| E10.3493 | Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral                                 | Diagnosis     | ICD-10-CM |
| E10.3499 | Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye                           | Diagnosis     | ICD-10-CM |
| E10.35   | Type 1 diabetes mellitus with proliferative diabetic retinopathy  | Diagnosis     | ICD-10-CM |
| E10.351  | Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema   | Diagnosis     | ICD-10-CM |
| E10.3511 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye  | Diagnosis     | ICD-10-CM |
| E10.3512 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye   | Diagnosis     | ICD-10-CM |
| E10.3513 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral  | Diagnosis     | ICD-10-CM |
| E10.3519 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye  | Diagnosis     | ICD-10-CM |
| E10.352  | Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula                      | Diagnosis     | ICD-10-CM |
| E10.3521 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye           | Diagnosis     | ICD-10-CM |
| E10.3522 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye            | Diagnosis     | ICD-10-CM |
| E10.3523 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral           | Diagnosis     | ICD-10-CM |
| E10.3529 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye     | Diagnosis     | ICD-10-CM |
| E10.353  | Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula                  | Diagnosis     | ICD-10-CM |
| E10.3531 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye       | Diagnosis     | ICD-10-CM |
| E10.3532 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye        | Diagnosis     | ICD-10-CM |
| E10.3533 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral       | Diagnosis     | ICD-10-CM |
| E10.3539 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| E10.354  | Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment                  | Diagnosis     | ICD-10-CM |
| E10.3541 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye       | Diagnosis     | ICD-10-CM |
| E10.3542 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye        | Diagnosis     | ICD-10-CM |
| E10.3543 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral       | Diagnosis     | ICD-10-CM |
| E10.3549 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye | Diagnosis     | ICD-10-CM |
| E10.355  | Type 1 diabetes mellitus with stable proliferative diabetic retinopathy   | Diagnosis     | ICD-10-CM |
| E10.3551 | Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, right eye  | Diagnosis     | ICD-10-CM |
| E10.3552 | Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, left eye   | Diagnosis     | ICD-10-CM |
| E10.3553 | Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral  | Diagnosis     | ICD-10-CM |
| E10.3559 | Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye  | Diagnosis     | ICD-10-CM |
| E10.359  | Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema  | Diagnosis     | ICD-10-CM |
| E10.3591 | Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye   | Diagnosis     | ICD-10-CM |
| E10.3592 | Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye  | Diagnosis     | ICD-10-CM |
| E10.3593 | Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral   | Diagnosis     | ICD-10-CM |
| E10.3599 | Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye   | Diagnosis     | ICD-10-CM |
| E10.36   | Type 1 diabetes mellitus with diabetic cataract   | Diagnosis     | ICD-10-CM |
| E10.37   | Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment  | Diagnosis     | ICD-10-CM |
| E10.37X1 | Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye   | Diagnosis     | ICD-10-CM |
| E10.37X2 | Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye  | Diagnosis     | ICD-10-CM |
| E10.37X3 | Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral   | Diagnosis     | ICD-10-CM |
| E10.37X9 | Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye   | Diagnosis     | ICD-10-CM |
| E10.39   | Type 1 diabetes mellitus with other diabetic ophthalmic complication  | Diagnosis     | ICD-10-CM |
| E10.4    | Type 1 diabetes mellitus with neurological complications  | Diagnosis     | ICD-10-CM |
| E10.40   | Type 1 diabetes mellitus with diabetic neuropathy, unspecified  | Diagnosis     | ICD-10-CM |
| E10.41   | Type 1 diabetes mellitus with diabetic mononeuropathy   | Diagnosis     | ICD-10-CM |
| E10.42   | Type 1 diabetes mellitus with diabetic polyneuropathy   | Diagnosis     | ICD-10-CM |
| E10.43   | Type 1 diabetes mellitus with diabetic autonomic (poly)neuropathy   | Diagnosis     | ICD-10-CM |
| E10.44   | Type 1 diabetes mellitus with diabetic amyotrophy   | Diagnosis     | ICD-10-CM |
| E10.49   | Type 1 diabetes mellitus with other diabetic neurological complication  | Diagnosis     | ICD-10-CM |
| E10.5    | Type 1 diabetes mellitus with circulatory complications   | Diagnosis     | ICD-10-CM |
| E10.51   | Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene   | Diagnosis     | ICD-10-CM |
| E10.52   | Type 1 diabetes mellitus with diabetic peripheral angiopathy with gangrene  | Diagnosis     | ICD-10-CM |
| E10.59   | Type 1 diabetes mellitus with other circulatory complications   | Diagnosis     | ICD-10-CM |
| E10.6    | Type 1 diabetes mellitus with other specified complications   | Diagnosis     | ICD-10-CM |
| E10.61   | Type 1 diabetes mellitus with diabetic arthropathy  | Diagnosis     | ICD-10-CM |
| E10.610  | Type 1 diabetes mellitus with diabetic neuropathic arthropathy  | Diagnosis     | ICD-10-CM |
| E10.618  | Type 1 diabetes mellitus with other diabetic arthropathy  | Diagnosis     | ICD-10-CM |
| E10.62   | Type 1 diabetes mellitus with skin complications  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| E10.620  | Type 1 diabetes mellitus with diabetic dermatitis   | Diagnosis     | ICD-10-CM |
| E10.621  | Type 1 diabetes mellitus with foot ulcer  | Diagnosis     | ICD-10-CM |
| E10.622  | Type 1 diabetes mellitus with other skin ulcer  | Diagnosis     | ICD-10-CM |
| E10.628  | Type 1 diabetes mellitus with other skin complications  | Diagnosis     | ICD-10-CM |
| E10.63   | Type 1 diabetes mellitus with oral complications  | Diagnosis     | ICD-10-CM |
| E10.630  | Type 1 diabetes mellitus with periodontal disease   | Diagnosis     | ICD-10-CM |
| E10.638  | Type 1 diabetes mellitus with other oral complications  | Diagnosis     | ICD-10-CM |
| E10.64   | Type 1 diabetes mellitus with hypoglycemia  | Diagnosis     | ICD-10-CM |
| E10.641  | Type 1 diabetes mellitus with hypoglycemia with coma  | Diagnosis     | ICD-10-CM |
| E10.649  | Type 1 diabetes mellitus with hypoglycemia without coma   | Diagnosis     | ICD-10-CM |
| E10.65   | Type 1 diabetes mellitus with hyperglycemia   | Diagnosis     | ICD-10-CM |
| E10.69   | Type 1 diabetes mellitus with other specified complication  | Diagnosis     | ICD-10-CM |
| E10.8    | Type 1 diabetes mellitus with unspecified complications   | Diagnosis     | ICD-10-CM |
| E10.9    | Type 1 diabetes mellitus without complications  | Diagnosis     | ICD-10-CM |
| E11.0    | Type 2 diabetes mellitus with hyperosmolarity   | Diagnosis     | ICD-10-CM |
| E11.00   | Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)        | Diagnosis     | ICD-10-CM |
| E11.01   | Type 2 diabetes mellitus with hyperosmolarity with coma   | Diagnosis     | ICD-10-CM |
| E11.1    | Type 2 diabetes mellitus with ketoacidosis  | Diagnosis     | ICD-10-CM |
| E11.10   | Type 2 diabetes mellitus with ketoacidosis without coma   | Diagnosis     | ICD-10-CM |
| E11.11   | Type 2 diabetes mellitus with ketoacidosis with coma  | Diagnosis     | ICD-10-CM |
| E11.2    | Type 2 diabetes mellitus with kidney complications  | Diagnosis     | ICD-10-CM |
| E11.21   | Type 2 diabetes mellitus with diabetic nephropathy  | Diagnosis     | ICD-10-CM |
| E11.22   | Type 2 diabetes mellitus with diabetic chronic kidney disease   | Diagnosis     | ICD-10-CM |
| E11.29   | Type 2 diabetes mellitus with other diabetic kidney complication  | Diagnosis     | ICD-10-CM |
| E11.3    | Type 2 diabetes mellitus with ophthalmic complications  | Diagnosis     | ICD-10-CM |
| E11.31   | Type 2 diabetes mellitus with unspecified diabetic retinopathy  | Diagnosis     | ICD-10-CM |
| E11.311  | Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema                               | Diagnosis     | ICD-10-CM |
| E11.319  | Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema                            | Diagnosis     | ICD-10-CM |
| E11.32   | Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy  | Diagnosis     | ICD-10-CM |
| E11.321  | Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema                     | Diagnosis     | ICD-10-CM |
| E11.3211 | Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye          | Diagnosis     | ICD-10-CM |
| E11.3212 | Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye           | Diagnosis     | ICD-10-CM |
| E11.3213 | Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral          | Diagnosis     | ICD-10-CM |
| E11.3219 | Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye    | Diagnosis     | ICD-10-CM |
| E11.329  | Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema                  | Diagnosis     | ICD-10-CM |
| E11.3291 | Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye       | Diagnosis     | ICD-10-CM |
| E11.3292 | Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye        | Diagnosis     | ICD-10-CM |
| E11.3293 | Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral       | Diagnosis     | ICD-10-CM |
| E11.3299 | Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| E11.33   | Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy  | Diagnosis     | ICD-10-CM |
| E11.331  | Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema                     | Diagnosis     | ICD-10-CM |
| E11.3311 | Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye          | Diagnosis     | ICD-10-CM |
| E11.3312 | Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye           | Diagnosis     | ICD-10-CM |
| E11.3313 | Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral          | Diagnosis     | ICD-10-CM |
| E11.3319 | Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye    | Diagnosis     | ICD-10-CM |
| E11.339  | Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema                  | Diagnosis     | ICD-10-CM |
| E11.3391 | Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye       | Diagnosis     | ICD-10-CM |
| E11.3392 | Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye        | Diagnosis     | ICD-10-CM |
| E11.3393 | Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral       | Diagnosis     | ICD-10-CM |
| E11.3399 | Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye | Diagnosis     | ICD-10-CM |
| E11.34   | Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy  | Diagnosis     | ICD-10-CM |
| E11.341  | Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema                       | Diagnosis     | ICD-10-CM |
| E11.3411 | Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye            | Diagnosis     | ICD-10-CM |
| E11.3412 | Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye             | Diagnosis     | ICD-10-CM |
| E11.3413 | Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral            | Diagnosis     | ICD-10-CM |
| E11.3419 | Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye      | Diagnosis     | ICD-10-CM |
| E11.349  | Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema                    | Diagnosis     | ICD-10-CM |
| E11.3491 | Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye         | Diagnosis     | ICD-10-CM |
| E11.3492 | Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye          | Diagnosis     | ICD-10-CM |
| E11.3493 | Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral         | Diagnosis     | ICD-10-CM |
| E11.3499 | Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye   | Diagnosis     | ICD-10-CM |
| E11.35   | Type 2 diabetes mellitus with proliferative diabetic retinopathy  | Diagnosis     | ICD-10-CM |
| E11.351  | Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema                                 | Diagnosis     | ICD-10-CM |
| E11.3511 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye                      | Diagnosis     | ICD-10-CM |
| E11.3512 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye                       | Diagnosis     | ICD-10-CM |
| E11.3513 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral                      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| E11.3519 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye  | Diagnosis     | ICD-10-CM |
| E11.352  | Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula  | Diagnosis     | ICD-10-CM |
| E11.3521 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye                                 | Diagnosis     | ICD-10-CM |
| E11.3522 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye                                  | Diagnosis     | ICD-10-CM |
| E11.3523 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral                                 | Diagnosis     | ICD-10-CM |
| E11.3529 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye                           | Diagnosis     | ICD-10-CM |
| E11.353  | Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula  | Diagnosis     | ICD-10-CM |
| E11.3531 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye                             | Diagnosis     | ICD-10-CM |
| E11.3532 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye                              | Diagnosis     | ICD-10-CM |
| E11.3533 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral                             | Diagnosis     | ICD-10-CM |
| E11.3539 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye                       | Diagnosis     | ICD-10-CM |
| E11.354  | Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment                  | Diagnosis     | ICD-10-CM |
| E11.3541 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye       | Diagnosis     | ICD-10-CM |
| E11.3542 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye        | Diagnosis     | ICD-10-CM |
| E11.3543 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral       | Diagnosis     | ICD-10-CM |
| E11.3549 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye | Diagnosis     | ICD-10-CM |
| E11.355  | Type 2 diabetes mellitus with stable proliferative diabetic retinopathy   | Diagnosis     | ICD-10-CM |
| E11.3551 | Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, right eye  | Diagnosis     | ICD-10-CM |
| E11.3552 | Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, left eye   | Diagnosis     | ICD-10-CM |
| E11.3553 | Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral  | Diagnosis     | ICD-10-CM |
| E11.3559 | Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye  | Diagnosis     | ICD-10-CM |
| E11.359  | Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema  | Diagnosis     | ICD-10-CM |
| E11.3591 | Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye   | Diagnosis     | ICD-10-CM |
| E11.3592 | Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye  | Diagnosis     | ICD-10-CM |
| E11.3593 | Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral   | Diagnosis     | ICD-10-CM |
| E11.3599 | Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye   | Diagnosis     | ICD-10-CM |
| E11.36   | Type 2 diabetes mellitus with diabetic cataract   | Diagnosis     | ICD-10-CM |
| E11.37   | Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment  | Diagnosis     | ICD-10-CM |
| E11.37X1 | Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| E11.37X2 | Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye                      | Diagnosis     | ICD-10-CM |
| E11.37X3 | Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral                     | Diagnosis     | ICD-10-CM |
| E11.37X9 | Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye               | Diagnosis     | ICD-10-CM |
| E11.39   | Type 2 diabetes mellitus with other diabetic ophthalmic complication  | Diagnosis     | ICD-10-CM |
| E11.4    | Type 2 diabetes mellitus with neurological complications  | Diagnosis     | ICD-10-CM |
| E11.40   | Type 2 diabetes mellitus with diabetic neuropathy, unspecified  | Diagnosis     | ICD-10-CM |
| E11.41   | Type 2 diabetes mellitus with diabetic mononeuropathy   | Diagnosis     | ICD-10-CM |
| E11.42   | Type 2 diabetes mellitus with diabetic polyneuropathy   | Diagnosis     | ICD-10-CM |
| E11.43   | Type 2 diabetes mellitus with diabetic autonomic (poly)neuropathy   | Diagnosis     | ICD-10-CM |
| E11.44   | Type 2 diabetes mellitus with diabetic amyotrophy   | Diagnosis     | ICD-10-CM |
| E11.49   | Type 2 diabetes mellitus with other diabetic neurological complication  | Diagnosis     | ICD-10-CM |
| E11.5    | Type 2 diabetes mellitus with circulatory complications   | Diagnosis     | ICD-10-CM |
| E11.51   | Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene                                     | Diagnosis     | ICD-10-CM |
| E11.52   | Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene  | Diagnosis     | ICD-10-CM |
| E11.59   | Type 2 diabetes mellitus with other circulatory complications   | Diagnosis     | ICD-10-CM |
| E11.6    | Type 2 diabetes mellitus with other specified complications   | Diagnosis     | ICD-10-CM |
| E11.61   | Type 2 diabetes mellitus with diabetic arthropathy  | Diagnosis     | ICD-10-CM |
| E11.610  | Type 2 diabetes mellitus with diabetic neuropathic arthropathy  | Diagnosis     | ICD-10-CM |
| E11.618  | Type 2 diabetes mellitus with other diabetic arthropathy  | Diagnosis     | ICD-10-CM |
| E11.62   | Type 2 diabetes mellitus with skin complications  | Diagnosis     | ICD-10-CM |
| E11.620  | Type 2 diabetes mellitus with diabetic dermatitis   | Diagnosis     | ICD-10-CM |
| E11.621  | Type 2 diabetes mellitus with foot ulcer  | Diagnosis     | ICD-10-CM |
| E11.622  | Type 2 diabetes mellitus with other skin ulcer  | Diagnosis     | ICD-10-CM |
| E11.628  | Type 2 diabetes mellitus with other skin complications  | Diagnosis     | ICD-10-CM |
| E11.63   | Type 2 diabetes mellitus with oral complications  | Diagnosis     | ICD-10-CM |
| E11.630  | Type 2 diabetes mellitus with periodontal disease   | Diagnosis     | ICD-10-CM |
| E11.638  | Type 2 diabetes mellitus with other oral complications  | Diagnosis     | ICD-10-CM |
| E11.64   | Type 2 diabetes mellitus with hypoglycemia  | Diagnosis     | ICD-10-CM |
| E11.641  | Type 2 diabetes mellitus with hypoglycemia with coma  | Diagnosis     | ICD-10-CM |
| E11.649  | Type 2 diabetes mellitus with hypoglycemia without coma   | Diagnosis     | ICD-10-CM |
| E11.65   | Type 2 diabetes mellitus with hyperglycemia   | Diagnosis     | ICD-10-CM |
| E11.69   | Type 2 diabetes mellitus with other specified complication  | Diagnosis     | ICD-10-CM |
| E11.8    | Type 2 diabetes mellitus with unspecified complications   | Diagnosis     | ICD-10-CM |
| E11.9    | Type 2 diabetes mellitus without complications  | Diagnosis     | ICD-10-CM |
| E13.0    | Other specified diabetes mellitus with hyperosmolarity  | Diagnosis     | ICD-10-CM |
| E13.00   | Other specified diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC) | Diagnosis     | ICD-10-CM |
| E13.01   | Other specified diabetes mellitus with hyperosmolarity with coma  | Diagnosis     | ICD-10-CM |
| E13.1    | Other specified diabetes mellitus with ketoacidosis   | Diagnosis     | ICD-10-CM |
| E13.10   | Other specified diabetes mellitus with ketoacidosis without coma  | Diagnosis     | ICD-10-CM |
| E13.11   | Other specified diabetes mellitus with ketoacidosis with coma   | Diagnosis     | ICD-10-CM |
| E13.2    | Other specified diabetes mellitus with kidney complications   | Diagnosis     | ICD-10-CM |
| E13.21   | Other specified diabetes mellitus with diabetic nephropathy   | Diagnosis     | ICD-10-CM |
| E13.22   | Other specified diabetes mellitus with diabetic chronic kidney disease  | Diagnosis     | ICD-10-CM |
| E13.29   | Other specified diabetes mellitus with other diabetic kidney complication   | Diagnosis     | ICD-10-CM |
| E13.3    | Other specified diabetes mellitus with ophthalmic complications   | Diagnosis     | ICD-10-CM |
| E13.31   | Other specified diabetes mellitus with unspecified diabetic retinopathy   | Diagnosis     | ICD-10-CM |
| E13.311  | Other specified diabetes mellitus with unspecified diabetic retinopathy with macular edema                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| E13.319  | Other specified diabetes mellitus with unspecified diabetic retinopathy without macular edema                                | Diagnosis     | ICD-10-CM |
| E13.32   | Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy  | Diagnosis     | ICD-10-CM |
| E13.321  | Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema                         | Diagnosis     | ICD-10-CM |
| E13.3211 | Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye              | Diagnosis     | ICD-10-CM |
| E13.3212 | Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye               | Diagnosis     | ICD-10-CM |
| E13.3213 | Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral              | Diagnosis     | ICD-10-CM |
| E13.3219 | Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye        | Diagnosis     | ICD-10-CM |
| E13.329  | Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema                      | Diagnosis     | ICD-10-CM |
| E13.3291 | Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye           | Diagnosis     | ICD-10-CM |
| E13.3292 | Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye            | Diagnosis     | ICD-10-CM |
| E13.3293 | Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral           | Diagnosis     | ICD-10-CM |
| E13.3299 | Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye     | Diagnosis     | ICD-10-CM |
| E13.33   | Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy  | Diagnosis     | ICD-10-CM |
| E13.331  | Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema                     | Diagnosis     | ICD-10-CM |
| E13.3311 | Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye          | Diagnosis     | ICD-10-CM |
| E13.3312 | Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye           | Diagnosis     | ICD-10-CM |
| E13.3313 | Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral          | Diagnosis     | ICD-10-CM |
| E13.3319 | Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye    | Diagnosis     | ICD-10-CM |
| E13.339  | Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema                  | Diagnosis     | ICD-10-CM |
| E13.3391 | Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye       | Diagnosis     | ICD-10-CM |
| E13.3392 | Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye        | Diagnosis     | ICD-10-CM |
| E13.3393 | Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral       | Diagnosis     | ICD-10-CM |
| E13.3399 | Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye | Diagnosis     | ICD-10-CM |
| E13.34   | Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy  | Diagnosis     | ICD-10-CM |
| E13.341  | Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema                       | Diagnosis     | ICD-10-CM |
| E13.3411 | Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| E13.3412 | Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye  | Diagnosis     | ICD-10-CM |
| E13.3413 | Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral   | Diagnosis     | ICD-10-CM |
| E13.3419 | Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye                                   | Diagnosis     | ICD-10-CM |
| E13.349  | Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema   | Diagnosis     | ICD-10-CM |
| E13.3491 | Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye                                      | Diagnosis     | ICD-10-CM |
| E13.3492 | Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye                                       | Diagnosis     | ICD-10-CM |
| E13.3493 | Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral                                      | Diagnosis     | ICD-10-CM |
| E13.3499 | Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye                                | Diagnosis     | ICD-10-CM |
| E13.35   | Other specified diabetes mellitus with proliferative diabetic retinopathy   | Diagnosis     | ICD-10-CM |
| E13.351  | Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema  | Diagnosis     | ICD-10-CM |
| E13.3511 | Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye   | Diagnosis     | ICD-10-CM |
| E13.3512 | Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye  | Diagnosis     | ICD-10-CM |
| E13.3513 | Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral   | Diagnosis     | ICD-10-CM |
| E13.3519 | Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye   | Diagnosis     | ICD-10-CM |
| E13.352  | Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula                           | Diagnosis     | ICD-10-CM |
| E13.3521 | Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye                | Diagnosis     | ICD-10-CM |
| E13.3522 | Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye                 | Diagnosis     | ICD-10-CM |
| E13.3523 | Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral                | Diagnosis     | ICD-10-CM |
| E13.3529 | Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye          | Diagnosis     | ICD-10-CM |
| E13.353  | Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula                       | Diagnosis     | ICD-10-CM |
| E13.3531 | Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye            | Diagnosis     | ICD-10-CM |
| E13.3532 | Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye             | Diagnosis     | ICD-10-CM |
| E13.3533 | Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral            | Diagnosis     | ICD-10-CM |
| E13.3539 | Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye      | Diagnosis     | ICD-10-CM |
| E13.354  | Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| E13.3541 | Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye       | Diagnosis     | ICD-10-CM |
| E13.3542 | Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye        | Diagnosis     | ICD-10-CM |
| E13.3543 | Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral       | Diagnosis     | ICD-10-CM |
| E13.3549 | Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye | Diagnosis     | ICD-10-CM |
| E13.355  | Other specified diabetes mellitus with stable proliferative diabetic retinopathy   | Diagnosis     | ICD-10-CM |
| E13.3551 | Other specified diabetes mellitus with stable proliferative diabetic retinopathy, right eye  | Diagnosis     | ICD-10-CM |
| E13.3552 | Other specified diabetes mellitus with stable proliferative diabetic retinopathy, left eye   | Diagnosis     | ICD-10-CM |
| E13.3553 | Other specified diabetes mellitus with stable proliferative diabetic retinopathy, bilateral  | Diagnosis     | ICD-10-CM |
| E13.3559 | Other specified diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye  | Diagnosis     | ICD-10-CM |
| E13.359  | Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema  | Diagnosis     | ICD-10-CM |
| E13.3591 | Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye   | Diagnosis     | ICD-10-CM |
| E13.3592 | Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye  | Diagnosis     | ICD-10-CM |
| E13.3593 | Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral   | Diagnosis     | ICD-10-CM |
| E13.3599 | Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye   | Diagnosis     | ICD-10-CM |
| E13.36   | Other specified diabetes mellitus with diabetic cataract   | Diagnosis     | ICD-10-CM |
| E13.37   | Other specified diabetes mellitus with diabetic macular edema, resolved following treatment  | Diagnosis     | ICD-10-CM |
| E13.37X1 | Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, right eye   | Diagnosis     | ICD-10-CM |
| E13.37X2 | Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, left eye  | Diagnosis     | ICD-10-CM |
| E13.37X3 | Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral   | Diagnosis     | ICD-10-CM |
| E13.37X9 | Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye   | Diagnosis     | ICD-10-CM |
| E13.39   | Other specified diabetes mellitus with other diabetic ophthalmic complication  | Diagnosis     | ICD-10-CM |
| E13.4    | Other specified diabetes mellitus with neurological complications  | Diagnosis     | ICD-10-CM |
| E13.40   | Other specified diabetes mellitus with diabetic neuropathy, unspecified  | Diagnosis     | ICD-10-CM |
| E13.41   | Other specified diabetes mellitus with diabetic mononeuropathy   | Diagnosis     | ICD-10-CM |
| E13.42   | Other specified diabetes mellitus with diabetic polyneuropathy   | Diagnosis     | ICD-10-CM |
| E13.43   | Other specified diabetes mellitus with diabetic autonomic (poly)neuropathy   | Diagnosis     | ICD-10-CM |
| E13.44   | Other specified diabetes mellitus with diabetic amyotrophy   | Diagnosis     | ICD-10-CM |
| E13.49   | Other specified diabetes mellitus with other diabetic neurological complication  | Diagnosis     | ICD-10-CM |
| E13.5    | Other specified diabetes mellitus with circulatory complications   | Diagnosis     | ICD-10-CM |
| E13.51   | Other specified diabetes mellitus with diabetic peripheral angiopathy without gangrene   | Diagnosis     | ICD-10-CM |
| E13.52   | Other specified diabetes mellitus with diabetic peripheral angiopathy with gangrene  | Diagnosis     | ICD-10-CM |
| E13.59   | Other specified diabetes mellitus with other circulatory complications   | Diagnosis     | ICD-10-CM |
| E13.6    | Other specified diabetes mellitus with other specified complications   | Diagnosis     | ICD-10-CM |
| E13.61   | Other specified diabetes mellitus with diabetic arthropathy  | Diagnosis     | ICD-10-CM |
| E13.610  | Other specified diabetes mellitus with diabetic neuropathic arthropathy  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code                            | Description  | Code Category | Code Type |
|---------------------------------|--|---------------|-----------|
| E13.618                         | Other specified diabetes mellitus with other diabetic arthropathy            | Diagnosis     | ICD-10-CM |
| E13.62                          | Other specified diabetes mellitus with skin complications                    | Diagnosis     | ICD-10-CM |
| E13.620                         | Other specified diabetes mellitus with diabetic dermatitis                   | Diagnosis     | ICD-10-CM |
| E13.621                         | Other specified diabetes mellitus with foot ulcer                            | Diagnosis     | ICD-10-CM |
| E13.622                         | Other specified diabetes mellitus with other skin ulcer                      | Diagnosis     | ICD-10-CM |
| E13.628                         | Other specified diabetes mellitus with other skin complications              | Diagnosis     | ICD-10-CM |
| E13.63                          | Other specified diabetes mellitus with oral complications                    | Diagnosis     | ICD-10-CM |
| E13.630                         | Other specified diabetes mellitus with periodontal disease                   | Diagnosis     | ICD-10-CM |
| E13.638                         | Other specified diabetes mellitus with other oral complications              | Diagnosis     | ICD-10-CM |
| E13.64                          | Other specified diabetes mellitus with hypoglycemia                          | Diagnosis     | ICD-10-CM |
| E13.641                         | Other specified diabetes mellitus with hypoglycemia with coma                | Diagnosis     | ICD-10-CM |
| E13.649                         | Other specified diabetes mellitus with hypoglycemia without coma             | Diagnosis     | ICD-10-CM |
| E13.65                          | Other specified diabetes mellitus with hyperglycemia                         | Diagnosis     | ICD-10-CM |
| E13.69                          | Other specified diabetes mellitus with other specified complication          | Diagnosis     | ICD-10-CM |
| E13.8                           | Other specified diabetes mellitus with unspecified complications             | Diagnosis     | ICD-10-CM |
| E13.9                           | Other specified diabetes mellitus without complications                      | Diagnosis     | ICD-10-CM |
| <b>Drug Abuse or Dependence</b> |  |               |           |
| F11.1                           | Opioid abuse   | Diagnosis     | ICD-10-CM |
| F11.10                          | Opioid abuse, uncomplicated  | Diagnosis     | ICD-10-CM |
| F11.11                          | Opioid abuse, in remission   | Diagnosis     | ICD-10-CM |
| F11.12                          | Opioid abuse with intoxication   | Diagnosis     | ICD-10-CM |
| F11.120                         | Opioid abuse with intoxication, uncomplicated                                | Diagnosis     | ICD-10-CM |
| F11.121                         | Opioid abuse with intoxication delirium                                      | Diagnosis     | ICD-10-CM |
| F11.122                         | Opioid abuse with intoxication with perceptual disturbance                   | Diagnosis     | ICD-10-CM |
| F11.129                         | Opioid abuse with intoxication, unspecified                                  | Diagnosis     | ICD-10-CM |
| F11.13                          | Opioid abuse with withdrawal   | Diagnosis     | ICD-10-CM |
| F11.14                          | Opioid abuse with opioid-induced mood disorder                               | Diagnosis     | ICD-10-CM |
| F11.15                          | Opioid abuse with opioid-induced psychotic disorder                          | Diagnosis     | ICD-10-CM |
| F11.150                         | Opioid abuse with opioid-induced psychotic disorder with delusions           | Diagnosis     | ICD-10-CM |
| F11.151                         | Opioid abuse with opioid-induced psychotic disorder with hallucinations      | Diagnosis     | ICD-10-CM |
| F11.159                         | Opioid abuse with opioid-induced psychotic disorder, unspecified             | Diagnosis     | ICD-10-CM |
| F11.18                          | Opioid abuse with other opioid-induced disorder                              | Diagnosis     | ICD-10-CM |
| F11.181                         | Opioid abuse with opioid-induced sexual dysfunction                          | Diagnosis     | ICD-10-CM |
| F11.182                         | Opioid abuse with opioid-induced sleep disorder                              | Diagnosis     | ICD-10-CM |
| F11.188                         | Opioid abuse with other opioid-induced disorder                              | Diagnosis     | ICD-10-CM |
| F11.19                          | Opioid abuse with unspecified opioid-induced disorder                        | Diagnosis     | ICD-10-CM |
| F11.2                           | Opioid dependence  | Diagnosis     | ICD-10-CM |
| F11.20                          | Opioid dependence, uncomplicated   | Diagnosis     | ICD-10-CM |
| F11.21                          | Opioid dependence, in remission  | Diagnosis     | ICD-10-CM |
| F11.22                          | Opioid dependence with intoxication  | Diagnosis     | ICD-10-CM |
| F11.220                         | Opioid dependence with intoxication, uncomplicated                           | Diagnosis     | ICD-10-CM |
| F11.221                         | Opioid dependence with intoxication delirium                                 | Diagnosis     | ICD-10-CM |
| F11.222                         | Opioid dependence with intoxication with perceptual disturbance              | Diagnosis     | ICD-10-CM |
| F11.229                         | Opioid dependence with intoxication, unspecified                             | Diagnosis     | ICD-10-CM |
| F11.23                          | Opioid dependence with withdrawal  | Diagnosis     | ICD-10-CM |
| F11.24                          | Opioid dependence with opioid-induced mood disorder                          | Diagnosis     | ICD-10-CM |
| F11.25                          | Opioid dependence with opioid-induced psychotic disorder                     | Diagnosis     | ICD-10-CM |
| F11.250                         | Opioid dependence with opioid-induced psychotic disorder with delusions      | Diagnosis     | ICD-10-CM |
| F11.251                         | Opioid dependence with opioid-induced psychotic disorder with hallucinations | Diagnosis     | ICD-10-CM |
| F11.259                         | Opioid dependence with opioid-induced psychotic disorder, unspecified        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| F11.28  | Opioid dependence with other opioid-induced disorder                               | Diagnosis     | ICD-10-CM |
| F11.281 | Opioid dependence with opioid-induced sexual dysfunction                           | Diagnosis     | ICD-10-CM |
| F11.282 | Opioid dependence with opioid-induced sleep disorder                               | Diagnosis     | ICD-10-CM |
| F11.288 | Opioid dependence with other opioid-induced disorder                               | Diagnosis     | ICD-10-CM |
| F11.29  | Opioid dependence with unspecified opioid-induced disorder                         | Diagnosis     | ICD-10-CM |
| F11.9   | Opioid use, unspecified  | Diagnosis     | ICD-10-CM |
| F11.90  | Opioid use, unspecified, uncomplicated   | Diagnosis     | ICD-10-CM |
| F11.91  | Opioid use, unspecified, in remission  | Diagnosis     | ICD-10-CM |
| F11.92  | Opioid use, unspecified with intoxication  | Diagnosis     | ICD-10-CM |
| F11.920 | Opioid use, unspecified with intoxication, uncomplicated                           | Diagnosis     | ICD-10-CM |
| F11.921 | Opioid use, unspecified with intoxication delirium                                 | Diagnosis     | ICD-10-CM |
| F11.922 | Opioid use, unspecified with intoxication with perceptual disturbance              | Diagnosis     | ICD-10-CM |
| F11.929 | Opioid use, unspecified with intoxication, unspecified                             | Diagnosis     | ICD-10-CM |
| F11.93  | Opioid use, unspecified with withdrawal  | Diagnosis     | ICD-10-CM |
| F11.94  | Opioid use, unspecified with opioid-induced mood disorder                          | Diagnosis     | ICD-10-CM |
| F11.95  | Opioid use, unspecified with opioid-induced psychotic disorder                     | Diagnosis     | ICD-10-CM |
| F11.950 | Opioid use, unspecified with opioid-induced psychotic disorder with delusions      | Diagnosis     | ICD-10-CM |
| F11.951 | Opioid use, unspecified with opioid-induced psychotic disorder with hallucinations | Diagnosis     | ICD-10-CM |
| F11.959 | Opioid use, unspecified with opioid-induced psychotic disorder, unspecified        | Diagnosis     | ICD-10-CM |
| F11.98  | Opioid use, unspecified with other specified opioid-induced disorder               | Diagnosis     | ICD-10-CM |
| F11.981 | Opioid use, unspecified with opioid-induced sexual dysfunction                     | Diagnosis     | ICD-10-CM |
| F11.982 | Opioid use, unspecified with opioid-induced sleep disorder                         | Diagnosis     | ICD-10-CM |
| F11.988 | Opioid use, unspecified with other opioid-induced disorder                         | Diagnosis     | ICD-10-CM |
| F11.99  | Opioid use, unspecified with unspecified opioid-induced disorder                   | Diagnosis     | ICD-10-CM |
| F12.1   | Cannabis abuse   | Diagnosis     | ICD-10-CM |
| F12.10  | Cannabis abuse, uncomplicated  | Diagnosis     | ICD-10-CM |
| F12.11  | Cannabis abuse, in remission   | Diagnosis     | ICD-10-CM |
| F12.12  | Cannabis abuse with intoxication   | Diagnosis     | ICD-10-CM |
| F12.120 | Cannabis abuse with intoxication, uncomplicated                                    | Diagnosis     | ICD-10-CM |
| F12.121 | Cannabis abuse with intoxication delirium  | Diagnosis     | ICD-10-CM |
| F12.122 | Cannabis abuse with intoxication with perceptual disturbance                       | Diagnosis     | ICD-10-CM |
| F12.129 | Cannabis abuse with intoxication, unspecified                                      | Diagnosis     | ICD-10-CM |
| F12.13  | Cannabis abuse with withdrawal   | Diagnosis     | ICD-10-CM |
| F12.15  | Cannabis abuse with psychotic disorder   | Diagnosis     | ICD-10-CM |
| F12.150 | Cannabis abuse with psychotic disorder with delusions                              | Diagnosis     | ICD-10-CM |
| F12.151 | Cannabis abuse with psychotic disorder with hallucinations                         | Diagnosis     | ICD-10-CM |
| F12.159 | Cannabis abuse with psychotic disorder, unspecified                                | Diagnosis     | ICD-10-CM |
| F12.18  | Cannabis abuse with other cannabis-induced disorder                                | Diagnosis     | ICD-10-CM |
| F12.180 | Cannabis abuse with cannabis-induced anxiety disorder                              | Diagnosis     | ICD-10-CM |
| F12.188 | Cannabis abuse with other cannabis-induced disorder                                | Diagnosis     | ICD-10-CM |
| F12.19  | Cannabis abuse with unspecified cannabis-induced disorder                          | Diagnosis     | ICD-10-CM |
| F12.2   | Cannabis dependence  | Diagnosis     | ICD-10-CM |
| F12.20  | Cannabis dependence, uncomplicated   | Diagnosis     | ICD-10-CM |
| F12.21  | Cannabis dependence, in remission  | Diagnosis     | ICD-10-CM |
| F12.22  | Cannabis dependence with intoxication  | Diagnosis     | ICD-10-CM |
| F12.220 | Cannabis dependence with intoxication, uncomplicated                               | Diagnosis     | ICD-10-CM |
| F12.221 | Cannabis dependence with intoxication delirium                                     | Diagnosis     | ICD-10-CM |
| F12.222 | Cannabis dependence with intoxication with perceptual disturbance                  | Diagnosis     | ICD-10-CM |
| F12.229 | Cannabis dependence with intoxication, unspecified                                 | Diagnosis     | ICD-10-CM |
| F12.23  | Cannabis dependence with withdrawal  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| F12.25  | Cannabis dependence with psychotic disorder   | Diagnosis     | ICD-10-CM |
| F12.250 | Cannabis dependence with psychotic disorder with delusions  | Diagnosis     | ICD-10-CM |
| F12.251 | Cannabis dependence with psychotic disorder with hallucinations   | Diagnosis     | ICD-10-CM |
| F12.259 | Cannabis dependence with psychotic disorder, unspecified  | Diagnosis     | ICD-10-CM |
| F12.28  | Cannabis dependence with other cannabis-induced disorder  | Diagnosis     | ICD-10-CM |
| F12.280 | Cannabis dependence with cannabis-induced anxiety disorder  | Diagnosis     | ICD-10-CM |
| F12.288 | Cannabis dependence with other cannabis-induced disorder  | Diagnosis     | ICD-10-CM |
| F12.29  | Cannabis dependence with unspecified cannabis-induced disorder  | Diagnosis     | ICD-10-CM |
| F12.9   | Cannabis use, unspecified   | Diagnosis     | ICD-10-CM |
| F12.90  | Cannabis use, unspecified, uncomplicated  | Diagnosis     | ICD-10-CM |
| F12.91  | Cannabis use, unspecified, in remission   | Diagnosis     | ICD-10-CM |
| F12.92  | Cannabis use, unspecified with intoxication   | Diagnosis     | ICD-10-CM |
| F12.920 | Cannabis use, unspecified with intoxication, uncomplicated  | Diagnosis     | ICD-10-CM |
| F12.921 | Cannabis use, unspecified with intoxication delirium  | Diagnosis     | ICD-10-CM |
| F12.922 | Cannabis use, unspecified with intoxication with perceptual disturbance   | Diagnosis     | ICD-10-CM |
| F12.929 | Cannabis use, unspecified with intoxication, unspecified  | Diagnosis     | ICD-10-CM |
| F12.93  | Cannabis use, unspecified with withdrawal   | Diagnosis     | ICD-10-CM |
| F12.95  | Cannabis use, unspecified with psychotic disorder   | Diagnosis     | ICD-10-CM |
| F12.950 | Cannabis use, unspecified with psychotic disorder with delusions  | Diagnosis     | ICD-10-CM |
| F12.951 | Cannabis use, unspecified with psychotic disorder with hallucinations   | Diagnosis     | ICD-10-CM |
| F12.959 | Cannabis use, unspecified with psychotic disorder, unspecified  | Diagnosis     | ICD-10-CM |
| F12.98  | Cannabis use, unspecified with other cannabis-induced disorder  | Diagnosis     | ICD-10-CM |
| F12.980 | Cannabis use, unspecified with anxiety disorder   | Diagnosis     | ICD-10-CM |
| F12.988 | Cannabis use, unspecified with other cannabis-induced disorder  | Diagnosis     | ICD-10-CM |
| F12.99  | Cannabis use, unspecified with unspecified cannabis-induced disorder  | Diagnosis     | ICD-10-CM |
| F13.1   | Sedative, hypnotic or anxiolytic-related abuse  | Diagnosis     | ICD-10-CM |
| F13.10  | Sedative, hypnotic or anxiolytic abuse, uncomplicated   | Diagnosis     | ICD-10-CM |
| F13.11  | Sedative, hypnotic or anxiolytic abuse, in remission  | Diagnosis     | ICD-10-CM |
| F13.12  | Sedative, hypnotic or anxiolytic abuse with intoxication  | Diagnosis     | ICD-10-CM |
| F13.120 | Sedative, hypnotic or anxiolytic abuse with intoxication, uncomplicated   | Diagnosis     | ICD-10-CM |
| F13.121 | Sedative, hypnotic or anxiolytic abuse with intoxication delirium   | Diagnosis     | ICD-10-CM |
| F13.129 | Sedative, hypnotic or anxiolytic abuse with intoxication, unspecified   | Diagnosis     | ICD-10-CM |
| F13.13  | Sedative, hypnotic or anxiolytic abuse with withdrawal  | Diagnosis     | ICD-10-CM |
| F13.130 | Sedative, hypnotic or anxiolytic abuse with withdrawal, uncomplicated   | Diagnosis     | ICD-10-CM |
| F13.131 | Sedative, hypnotic or anxiolytic abuse with withdrawal delirium   | Diagnosis     | ICD-10-CM |
| F13.132 | Sedative, hypnotic or anxiolytic abuse with withdrawal with perceptual disturbance  | Diagnosis     | ICD-10-CM |
| F13.139 | Sedative, hypnotic or anxiolytic abuse with withdrawal, unspecified   | Diagnosis     | ICD-10-CM |
| F13.14  | Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced mood disorder                          | Diagnosis     | ICD-10-CM |
| F13.15  | Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced psychotic disorder                     | Diagnosis     | ICD-10-CM |
| F13.150 | Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced psychotic disorder with delusions      | Diagnosis     | ICD-10-CM |
| F13.151 | Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced psychotic disorder with hallucinations | Diagnosis     | ICD-10-CM |
| F13.159 | Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced psychotic disorder, unspecified        | Diagnosis     | ICD-10-CM |
| F13.18  | Sedative, hypnotic or anxiolytic abuse with other sedative, hypnotic or anxiolytic-induced disorders                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| F13.180 | Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced anxiety disorder                            | Diagnosis     | ICD-10-CM |
| F13.181 | Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced sexual dysfunction                          | Diagnosis     | ICD-10-CM |
| F13.182 | Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced sleep disorder                              | Diagnosis     | ICD-10-CM |
| F13.188 | Sedative, hypnotic or anxiolytic abuse with other sedative, hypnotic or anxiolytic-induced disorder                              | Diagnosis     | ICD-10-CM |
| F13.19  | Sedative, hypnotic or anxiolytic abuse with unspecified sedative, hypnotic or anxiolytic-induced disorder                        | Diagnosis     | ICD-10-CM |
| F13.2   | Sedative, hypnotic or anxiolytic-related dependence  | Diagnosis     | ICD-10-CM |
| F13.20  | Sedative, hypnotic or anxiolytic dependence, uncomplicated   | Diagnosis     | ICD-10-CM |
| F13.21  | Sedative, hypnotic or anxiolytic dependence, in remission  | Diagnosis     | ICD-10-CM |
| F13.22  | Sedative, hypnotic or anxiolytic dependence with intoxication  | Diagnosis     | ICD-10-CM |
| F13.220 | Sedative, hypnotic or anxiolytic dependence with intoxication, uncomplicated   | Diagnosis     | ICD-10-CM |
| F13.221 | Sedative, hypnotic or anxiolytic dependence with intoxication delirium   | Diagnosis     | ICD-10-CM |
| F13.229 | Sedative, hypnotic or anxiolytic dependence with intoxication, unspecified   | Diagnosis     | ICD-10-CM |
| F13.23  | Sedative, hypnotic or anxiolytic dependence with withdrawal  | Diagnosis     | ICD-10-CM |
| F13.230 | Sedative, hypnotic or anxiolytic dependence with withdrawal, uncomplicated   | Diagnosis     | ICD-10-CM |
| F13.231 | Sedative, hypnotic or anxiolytic dependence with withdrawal delirium   | Diagnosis     | ICD-10-CM |
| F13.232 | Sedative, hypnotic or anxiolytic dependence with withdrawal with perceptual disturbance  | Diagnosis     | ICD-10-CM |
| F13.239 | Sedative, hypnotic or anxiolytic dependence with withdrawal, unspecified   | Diagnosis     | ICD-10-CM |
| F13.24  | Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced mood disorder                          | Diagnosis     | ICD-10-CM |
| F13.25  | Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced psychotic disorder                     | Diagnosis     | ICD-10-CM |
| F13.250 | Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced psychotic disorder with delusions      | Diagnosis     | ICD-10-CM |
| F13.251 | Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced psychotic disorder with hallucinations | Diagnosis     | ICD-10-CM |
| F13.259 | Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced psychotic disorder, unspecified        | Diagnosis     | ICD-10-CM |
| F13.26  | Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced persisting amnesic disorder            | Diagnosis     | ICD-10-CM |
| F13.27  | Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced persisting dementia                    | Diagnosis     | ICD-10-CM |
| F13.28  | Sedative, hypnotic or anxiolytic dependence with other sedative, hypnotic or anxiolytic-induced disorders                        | Diagnosis     | ICD-10-CM |
| F13.280 | Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced anxiety disorder                       | Diagnosis     | ICD-10-CM |
| F13.281 | Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced sexual dysfunction                     | Diagnosis     | ICD-10-CM |
| F13.282 | Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced sleep disorder                         | Diagnosis     | ICD-10-CM |
| F13.288 | Sedative, hypnotic or anxiolytic dependence with other sedative, hypnotic or anxiolytic-induced disorder                         | Diagnosis     | ICD-10-CM |
| F13.29  | Sedative, hypnotic or anxiolytic dependence with unspecified sedative, hypnotic or anxiolytic-induced disorder                   | Diagnosis     | ICD-10-CM |
| F13.9   | Sedative, hypnotic or anxiolytic-related use, unspecified  | Diagnosis     | ICD-10-CM |
| F13.90  | Sedative, hypnotic, or anxiolytic use, unspecified, uncomplicated  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| F13.91  | Sedative, hypnotic or anxiolytic use, unspecified, in remission  | Diagnosis     | ICD-10-CM |
| F13.92  | Sedative, hypnotic or anxiolytic use, unspecified with intoxication  | Diagnosis     | ICD-10-CM |
| F13.920 | Sedative, hypnotic or anxiolytic use, unspecified with intoxication, uncomplicated   | Diagnosis     | ICD-10-CM |
| F13.921 | Sedative, hypnotic or anxiolytic use, unspecified with intoxication delirium   | Diagnosis     | ICD-10-CM |
| F13.929 | Sedative, hypnotic or anxiolytic use, unspecified with intoxication, unspecified   | Diagnosis     | ICD-10-CM |
| F13.93  | Sedative, hypnotic or anxiolytic use, unspecified with withdrawal  | Diagnosis     | ICD-10-CM |
| F13.930 | Sedative, hypnotic or anxiolytic use, unspecified with withdrawal, uncomplicated   | Diagnosis     | ICD-10-CM |
| F13.931 | Sedative, hypnotic or anxiolytic use, unspecified with withdrawal delirium   | Diagnosis     | ICD-10-CM |
| F13.932 | Sedative, hypnotic or anxiolytic use, unspecified with withdrawal with perceptual disturbances   | Diagnosis     | ICD-10-CM |
| F13.939 | Sedative, hypnotic or anxiolytic use, unspecified with withdrawal, unspecified   | Diagnosis     | ICD-10-CM |
| F13.94  | Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced mood disorder                          | Diagnosis     | ICD-10-CM |
| F13.95  | Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced psychotic disorder                     | Diagnosis     | ICD-10-CM |
| F13.950 | Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced psychotic disorder with delusions      | Diagnosis     | ICD-10-CM |
| F13.951 | Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced psychotic disorder with hallucinations | Diagnosis     | ICD-10-CM |
| F13.959 | Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced psychotic disorder, unspecified        | Diagnosis     | ICD-10-CM |
| F13.96  | Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced persisting amnesic disorder            | Diagnosis     | ICD-10-CM |
| F13.97  | Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced persisting dementia                    | Diagnosis     | ICD-10-CM |
| F13.98  | Sedative, hypnotic or anxiolytic use, unspecified with other sedative, hypnotic or anxiolytic-induced disorders                        | Diagnosis     | ICD-10-CM |
| F13.980 | Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced anxiety disorder                       | Diagnosis     | ICD-10-CM |
| F13.981 | Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced sexual dysfunction                     | Diagnosis     | ICD-10-CM |
| F13.982 | Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced sleep disorder                         | Diagnosis     | ICD-10-CM |
| F13.988 | Sedative, hypnotic or anxiolytic use, unspecified with other sedative, hypnotic or anxiolytic-induced disorder                         | Diagnosis     | ICD-10-CM |
| F13.99  | Sedative, hypnotic or anxiolytic use, unspecified with unspecified sedative, hypnotic or anxiolytic-induced disorder                   | Diagnosis     | ICD-10-CM |
| F14.1   | Cocaine abuse  | Diagnosis     | ICD-10-CM |
| F14.10  | Cocaine abuse, uncomplicated   | Diagnosis     | ICD-10-CM |
| F14.11  | Cocaine abuse, in remission  | Diagnosis     | ICD-10-CM |
| F14.12  | Cocaine abuse with intoxication  | Diagnosis     | ICD-10-CM |
| F14.120 | Cocaine abuse with intoxication, uncomplicated   | Diagnosis     | ICD-10-CM |
| F14.121 | Cocaine abuse with intoxication with delirium  | Diagnosis     | ICD-10-CM |
| F14.122 | Cocaine abuse with intoxication with perceptual disturbance  | Diagnosis     | ICD-10-CM |
| F14.129 | Cocaine abuse with intoxication, unspecified   | Diagnosis     | ICD-10-CM |
| F14.13  | Cocaine abuse, unspecified with withdrawal   | Diagnosis     | ICD-10-CM |
| F14.14  | Cocaine abuse with cocaine-induced mood disorder   | Diagnosis     | ICD-10-CM |
| F14.15  | Cocaine abuse with cocaine-induced psychotic disorder  | Diagnosis     | ICD-10-CM |
| F14.150 | Cocaine abuse with cocaine-induced psychotic disorder with delusions   | Diagnosis     | ICD-10-CM |
| F14.151 | Cocaine abuse with cocaine-induced psychotic disorder with hallucinations  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| F14.159 | Cocaine abuse with cocaine-induced psychotic disorder, unspecified                   | Diagnosis     | ICD-10-CM |
| F14.18  | Cocaine abuse with other cocaine-induced disorder                                    | Diagnosis     | ICD-10-CM |
| F14.180 | Cocaine abuse with cocaine-induced anxiety disorder                                  | Diagnosis     | ICD-10-CM |
| F14.181 | Cocaine abuse with cocaine-induced sexual dysfunction                                | Diagnosis     | ICD-10-CM |
| F14.182 | Cocaine abuse with cocaine-induced sleep disorder                                    | Diagnosis     | ICD-10-CM |
| F14.188 | Cocaine abuse with other cocaine-induced disorder                                    | Diagnosis     | ICD-10-CM |
| F14.19  | Cocaine abuse with unspecified cocaine-induced disorder                              | Diagnosis     | ICD-10-CM |
| F14.2   | Cocaine dependence   | Diagnosis     | ICD-10-CM |
| F14.20  | Cocaine dependence, uncomplicated  | Diagnosis     | ICD-10-CM |
| F14.21  | Cocaine dependence, in remission   | Diagnosis     | ICD-10-CM |
| F14.22  | Cocaine dependence with intoxication   | Diagnosis     | ICD-10-CM |
| F14.220 | Cocaine dependence with intoxication, uncomplicated                                  | Diagnosis     | ICD-10-CM |
| F14.221 | Cocaine dependence with intoxication delirium  | Diagnosis     | ICD-10-CM |
| F14.222 | Cocaine dependence with intoxication with perceptual disturbance                     | Diagnosis     | ICD-10-CM |
| F14.229 | Cocaine dependence with intoxication, unspecified                                    | Diagnosis     | ICD-10-CM |
| F14.23  | Cocaine dependence with withdrawal   | Diagnosis     | ICD-10-CM |
| F14.24  | Cocaine dependence with cocaine-induced mood disorder                                | Diagnosis     | ICD-10-CM |
| F14.25  | Cocaine dependence with cocaine-induced psychotic disorder                           | Diagnosis     | ICD-10-CM |
| F14.250 | Cocaine dependence with cocaine-induced psychotic disorder with delusions            | Diagnosis     | ICD-10-CM |
| F14.251 | Cocaine dependence with cocaine-induced psychotic disorder with hallucinations       | Diagnosis     | ICD-10-CM |
| F14.259 | Cocaine dependence with cocaine-induced psychotic disorder, unspecified              | Diagnosis     | ICD-10-CM |
| F14.28  | Cocaine dependence with other cocaine-induced disorder                               | Diagnosis     | ICD-10-CM |
| F14.280 | Cocaine dependence with cocaine-induced anxiety disorder                             | Diagnosis     | ICD-10-CM |
| F14.281 | Cocaine dependence with cocaine-induced sexual dysfunction                           | Diagnosis     | ICD-10-CM |
| F14.282 | Cocaine dependence with cocaine-induced sleep disorder                               | Diagnosis     | ICD-10-CM |
| F14.288 | Cocaine dependence with other cocaine-induced disorder                               | Diagnosis     | ICD-10-CM |
| F14.29  | Cocaine dependence with unspecified cocaine-induced disorder                         | Diagnosis     | ICD-10-CM |
| F14.9   | Cocaine use, unspecified   | Diagnosis     | ICD-10-CM |
| F14.90  | Cocaine use, unspecified, uncomplicated  | Diagnosis     | ICD-10-CM |
| F14.91  | Cocaine use, unspecified, in remission   | Diagnosis     | ICD-10-CM |
| F14.92  | Cocaine use, unspecified with intoxication   | Diagnosis     | ICD-10-CM |
| F14.920 | Cocaine use, unspecified with intoxication, uncomplicated                            | Diagnosis     | ICD-10-CM |
| F14.921 | Cocaine use, unspecified with intoxication delirium                                  | Diagnosis     | ICD-10-CM |
| F14.922 | Cocaine use, unspecified with intoxication with perceptual disturbance               | Diagnosis     | ICD-10-CM |
| F14.929 | Cocaine use, unspecified with intoxication, unspecified                              | Diagnosis     | ICD-10-CM |
| F14.93  | Cocaine use, unspecified with withdrawal   | Diagnosis     | ICD-10-CM |
| F14.94  | Cocaine use, unspecified with cocaine-induced mood disorder                          | Diagnosis     | ICD-10-CM |
| F14.95  | Cocaine use, unspecified with cocaine-induced psychotic disorder                     | Diagnosis     | ICD-10-CM |
| F14.950 | Cocaine use, unspecified with cocaine-induced psychotic disorder with delusions      | Diagnosis     | ICD-10-CM |
| F14.951 | Cocaine use, unspecified with cocaine-induced psychotic disorder with hallucinations | Diagnosis     | ICD-10-CM |
| F14.959 | Cocaine use, unspecified with cocaine-induced psychotic disorder, unspecified        | Diagnosis     | ICD-10-CM |
| F14.98  | Cocaine use, unspecified with other specified cocaine-induced disorder               | Diagnosis     | ICD-10-CM |
| F14.980 | Cocaine use, unspecified with cocaine-induced anxiety disorder                       | Diagnosis     | ICD-10-CM |
| F14.981 | Cocaine use, unspecified with cocaine-induced sexual dysfunction                     | Diagnosis     | ICD-10-CM |
| F14.982 | Cocaine use, unspecified with cocaine-induced sleep disorder                         | Diagnosis     | ICD-10-CM |
| F14.988 | Cocaine use, unspecified with other cocaine-induced disorder                         | Diagnosis     | ICD-10-CM |
| F14.99  | Cocaine use, unspecified with unspecified cocaine-induced disorder                   | Diagnosis     | ICD-10-CM |
| F15.1   | Other stimulant abuse  | Diagnosis     | ICD-10-CM |
| F15.10  | Other stimulant abuse, uncomplicated   | Diagnosis     | ICD-10-CM |
| F15.11  | Other stimulant abuse, in remission  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| F15.12  | Other stimulant abuse with intoxication   | Diagnosis     | ICD-10-CM |
| F15.120 | Other stimulant abuse with intoxication, uncomplicated                                    | Diagnosis     | ICD-10-CM |
| F15.121 | Other stimulant abuse with intoxication delirium  | Diagnosis     | ICD-10-CM |
| F15.122 | Other stimulant abuse with intoxication with perceptual disturbance                       | Diagnosis     | ICD-10-CM |
| F15.129 | Other stimulant abuse with intoxication, unspecified                                      | Diagnosis     | ICD-10-CM |
| F15.13  | Other stimulant abuse with withdrawal   | Diagnosis     | ICD-10-CM |
| F15.14  | Other stimulant abuse with stimulant-induced mood disorder                                | Diagnosis     | ICD-10-CM |
| F15.15  | Other stimulant abuse with stimulant-induced psychotic disorder                           | Diagnosis     | ICD-10-CM |
| F15.150 | Other stimulant abuse with stimulant-induced psychotic disorder with delusions            | Diagnosis     | ICD-10-CM |
| F15.151 | Other stimulant abuse with stimulant-induced psychotic disorder with hallucinations       | Diagnosis     | ICD-10-CM |
| F15.159 | Other stimulant abuse with stimulant-induced psychotic disorder, unspecified              | Diagnosis     | ICD-10-CM |
| F15.18  | Other stimulant abuse with other stimulant-induced disorder                               | Diagnosis     | ICD-10-CM |
| F15.180 | Other stimulant abuse with stimulant-induced anxiety disorder                             | Diagnosis     | ICD-10-CM |
| F15.181 | Other stimulant abuse with stimulant-induced sexual dysfunction                           | Diagnosis     | ICD-10-CM |
| F15.182 | Other stimulant abuse with stimulant-induced sleep disorder                               | Diagnosis     | ICD-10-CM |
| F15.188 | Other stimulant abuse with other stimulant-induced disorder                               | Diagnosis     | ICD-10-CM |
| F15.19  | Other stimulant abuse with unspecified stimulant-induced disorder                         | Diagnosis     | ICD-10-CM |
| F15.2   | Other stimulant dependence  | Diagnosis     | ICD-10-CM |
| F15.20  | Other stimulant dependence, uncomplicated   | Diagnosis     | ICD-10-CM |
| F15.21  | Other stimulant dependence, in remission  | Diagnosis     | ICD-10-CM |
| F15.22  | Other stimulant dependence with intoxication  | Diagnosis     | ICD-10-CM |
| F15.220 | Other stimulant dependence with intoxication, uncomplicated                               | Diagnosis     | ICD-10-CM |
| F15.221 | Other stimulant dependence with intoxication delirium                                     | Diagnosis     | ICD-10-CM |
| F15.222 | Other stimulant dependence with intoxication with perceptual disturbance                  | Diagnosis     | ICD-10-CM |
| F15.229 | Other stimulant dependence with intoxication, unspecified                                 | Diagnosis     | ICD-10-CM |
| F15.23  | Other stimulant dependence with withdrawal  | Diagnosis     | ICD-10-CM |
| F15.24  | Other stimulant dependence with stimulant-induced mood disorder                           | Diagnosis     | ICD-10-CM |
| F15.25  | Other stimulant dependence with stimulant-induced psychotic disorder                      | Diagnosis     | ICD-10-CM |
| F15.250 | Other stimulant dependence with stimulant-induced psychotic disorder with delusions       | Diagnosis     | ICD-10-CM |
| F15.251 | Other stimulant dependence with stimulant-induced psychotic disorder with hallucinations  | Diagnosis     | ICD-10-CM |
| F15.259 | Other stimulant dependence with stimulant-induced psychotic disorder, unspecified         | Diagnosis     | ICD-10-CM |
| F15.28  | Other stimulant dependence with other stimulant-induced disorder                          | Diagnosis     | ICD-10-CM |
| F15.280 | Other stimulant dependence with stimulant-induced anxiety disorder                        | Diagnosis     | ICD-10-CM |
| F15.281 | Other stimulant dependence with stimulant-induced sexual dysfunction                      | Diagnosis     | ICD-10-CM |
| F15.282 | Other stimulant dependence with stimulant-induced sleep disorder                          | Diagnosis     | ICD-10-CM |
| F15.288 | Other stimulant dependence with other stimulant-induced disorder                          | Diagnosis     | ICD-10-CM |
| F15.29  | Other stimulant dependence with unspecified stimulant-induced disorder                    | Diagnosis     | ICD-10-CM |
| F15.9   | Other stimulant use, unspecified  | Diagnosis     | ICD-10-CM |
| F15.90  | Other stimulant use, unspecified, uncomplicated   | Diagnosis     | ICD-10-CM |
| F15.91  | Other stimulant use, unspecified, in remission  | Diagnosis     | ICD-10-CM |
| F15.92  | Other stimulant use, unspecified with intoxication  | Diagnosis     | ICD-10-CM |
| F15.920 | Other stimulant use, unspecified with intoxication, uncomplicated                         | Diagnosis     | ICD-10-CM |
| F15.921 | Other stimulant use, unspecified with intoxication delirium                               | Diagnosis     | ICD-10-CM |
| F15.922 | Other stimulant use, unspecified with intoxication with perceptual disturbance            | Diagnosis     | ICD-10-CM |
| F15.929 | Other stimulant use, unspecified with intoxication, unspecified                           | Diagnosis     | ICD-10-CM |
| F15.93  | Other stimulant use, unspecified with withdrawal  | Diagnosis     | ICD-10-CM |
| F15.94  | Other stimulant use, unspecified with stimulant-induced mood disorder                     | Diagnosis     | ICD-10-CM |
| F15.95  | Other stimulant use, unspecified with stimulant-induced psychotic disorder                | Diagnosis     | ICD-10-CM |
| F15.950 | Other stimulant use, unspecified with stimulant-induced psychotic disorder with delusions | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| F15.951 | Other stimulant use, unspecified with stimulant-induced psychotic disorder with hallucinations | Diagnosis     | ICD-10-CM |
| F15.959 | Other stimulant use, unspecified with stimulant-induced psychotic disorder, unspecified        | Diagnosis     | ICD-10-CM |
| F15.98  | Other stimulant use, unspecified with other stimulant-induced disorder                         | Diagnosis     | ICD-10-CM |
| F15.980 | Other stimulant use, unspecified with stimulant-induced anxiety disorder                       | Diagnosis     | ICD-10-CM |
| F15.981 | Other stimulant use, unspecified with stimulant-induced sexual dysfunction                     | Diagnosis     | ICD-10-CM |
| F15.982 | Other stimulant use, unspecified with stimulant-induced sleep disorder                         | Diagnosis     | ICD-10-CM |
| F15.988 | Other stimulant use, unspecified with other stimulant-induced disorder                         | Diagnosis     | ICD-10-CM |
| F15.99  | Other stimulant use, unspecified with unspecified stimulant-induced disorder                   | Diagnosis     | ICD-10-CM |
| F16.1   | Hallucinogen abuse   | Diagnosis     | ICD-10-CM |
| F16.10  | Hallucinogen abuse, uncomplicated  | Diagnosis     | ICD-10-CM |
| F16.11  | Hallucinogen abuse, in remission   | Diagnosis     | ICD-10-CM |
| F16.12  | Hallucinogen abuse with intoxication   | Diagnosis     | ICD-10-CM |
| F16.120 | Hallucinogen abuse with intoxication, uncomplicated  | Diagnosis     | ICD-10-CM |
| F16.121 | Hallucinogen abuse with intoxication with delirium   | Diagnosis     | ICD-10-CM |
| F16.122 | Hallucinogen abuse with intoxication with perceptual disturbance                               | Diagnosis     | ICD-10-CM |
| F16.129 | Hallucinogen abuse with intoxication, unspecified  | Diagnosis     | ICD-10-CM |
| F16.14  | Hallucinogen abuse with hallucinogen-induced mood disorder                                     | Diagnosis     | ICD-10-CM |
| F16.15  | Hallucinogen abuse with hallucinogen-induced psychotic disorder                                | Diagnosis     | ICD-10-CM |
| F16.150 | Hallucinogen abuse with hallucinogen-induced psychotic disorder with delusions                 | Diagnosis     | ICD-10-CM |
| F16.151 | Hallucinogen abuse with hallucinogen-induced psychotic disorder with hallucinations            | Diagnosis     | ICD-10-CM |
| F16.159 | Hallucinogen abuse with hallucinogen-induced psychotic disorder, unspecified                   | Diagnosis     | ICD-10-CM |
| F16.18  | Hallucinogen abuse with other hallucinogen-induced disorder                                    | Diagnosis     | ICD-10-CM |
| F16.180 | Hallucinogen abuse with hallucinogen-induced anxiety disorder                                  | Diagnosis     | ICD-10-CM |
| F16.183 | Hallucinogen abuse with hallucinogen persisting perception disorder (flashbacks)               | Diagnosis     | ICD-10-CM |
| F16.188 | Hallucinogen abuse with other hallucinogen-induced disorder                                    | Diagnosis     | ICD-10-CM |
| F16.19  | Hallucinogen abuse with unspecified hallucinogen-induced disorder                              | Diagnosis     | ICD-10-CM |
| F16.2   | Hallucinogen dependence  | Diagnosis     | ICD-10-CM |
| F16.20  | Hallucinogen dependence, uncomplicated   | Diagnosis     | ICD-10-CM |
| F16.21  | Hallucinogen dependence, in remission  | Diagnosis     | ICD-10-CM |
| F16.22  | Hallucinogen dependence with intoxication  | Diagnosis     | ICD-10-CM |
| F16.220 | Hallucinogen dependence with intoxication, uncomplicated                                       | Diagnosis     | ICD-10-CM |
| F16.221 | Hallucinogen dependence with intoxication with delirium  | Diagnosis     | ICD-10-CM |
| F16.229 | Hallucinogen dependence with intoxication, unspecified   | Diagnosis     | ICD-10-CM |
| F16.24  | Hallucinogen dependence with hallucinogen-induced mood disorder                                | Diagnosis     | ICD-10-CM |
| F16.25  | Hallucinogen dependence with hallucinogen-induced psychotic disorder                           | Diagnosis     | ICD-10-CM |
| F16.250 | Hallucinogen dependence with hallucinogen-induced psychotic disorder with delusions            | Diagnosis     | ICD-10-CM |
| F16.251 | Hallucinogen dependence with hallucinogen-induced psychotic disorder with hallucinations       | Diagnosis     | ICD-10-CM |
| F16.259 | Hallucinogen dependence with hallucinogen-induced psychotic disorder, unspecified              | Diagnosis     | ICD-10-CM |
| F16.28  | Hallucinogen dependence with other hallucinogen-induced disorder                               | Diagnosis     | ICD-10-CM |
| F16.280 | Hallucinogen dependence with hallucinogen-induced anxiety disorder                             | Diagnosis     | ICD-10-CM |
| F16.283 | Hallucinogen dependence with hallucinogen persisting perception disorder (flashbacks)          | Diagnosis     | ICD-10-CM |
| F16.288 | Hallucinogen dependence with other hallucinogen-induced disorder                               | Diagnosis     | ICD-10-CM |
| F16.29  | Hallucinogen dependence with unspecified hallucinogen-induced disorder                         | Diagnosis     | ICD-10-CM |
| F16.9   | Hallucinogen use, unspecified  | Diagnosis     | ICD-10-CM |
| F16.90  | Hallucinogen use, unspecified, uncomplicated   | Diagnosis     | ICD-10-CM |
| F16.91  | Hallucinogen use, unspecified, in remission  | Diagnosis     | ICD-10-CM |
| F16.92  | Hallucinogen use, unspecified with intoxication  | Diagnosis     | ICD-10-CM |
| F16.920 | Hallucinogen use, unspecified with intoxication, uncomplicated                                 | Diagnosis     | ICD-10-CM |
| F16.921 | Hallucinogen use, unspecified with intoxication with delirium                                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| F16.929 | Hallucinogen use, unspecified with intoxication, unspecified                                   | Diagnosis     | ICD-10-CM |
| F16.94  | Hallucinogen use, unspecified with hallucinogen-induced mood disorder                          | Diagnosis     | ICD-10-CM |
| F16.95  | Hallucinogen use, unspecified with hallucinogen-induced psychotic disorder                     | Diagnosis     | ICD-10-CM |
| F16.950 | Hallucinogen use, unspecified with hallucinogen-induced psychotic disorder with delusions      | Diagnosis     | ICD-10-CM |
| F16.951 | Hallucinogen use, unspecified with hallucinogen-induced psychotic disorder with hallucinations | Diagnosis     | ICD-10-CM |
| F16.959 | Hallucinogen use, unspecified with hallucinogen-induced psychotic disorder, unspecified        | Diagnosis     | ICD-10-CM |
| F16.98  | Hallucinogen use, unspecified with other specified hallucinogen-induced disorder               | Diagnosis     | ICD-10-CM |
| F16.980 | Hallucinogen use, unspecified with hallucinogen-induced anxiety disorder                       | Diagnosis     | ICD-10-CM |
| F16.983 | Hallucinogen use, unspecified with hallucinogen persisting perception disorder (flashbacks)    | Diagnosis     | ICD-10-CM |
| F16.988 | Hallucinogen use, unspecified with other hallucinogen-induced disorder                         | Diagnosis     | ICD-10-CM |
| F16.99  | Hallucinogen use, unspecified with unspecified hallucinogen-induced disorder                   | Diagnosis     | ICD-10-CM |
| F18.1   | Inhalant abuse   | Diagnosis     | ICD-10-CM |
| F18.10  | Inhalant abuse, uncomplicated  | Diagnosis     | ICD-10-CM |
| F18.11  | Inhalant abuse, in remission   | Diagnosis     | ICD-10-CM |
| F18.12  | Inhalant abuse with intoxication   | Diagnosis     | ICD-10-CM |
| F18.120 | Inhalant abuse with intoxication, uncomplicated  | Diagnosis     | ICD-10-CM |
| F18.121 | Inhalant abuse with intoxication delirium  | Diagnosis     | ICD-10-CM |
| F18.129 | Inhalant abuse with intoxication, unspecified  | Diagnosis     | ICD-10-CM |
| F18.14  | Inhalant abuse with inhalant-induced mood disorder   | Diagnosis     | ICD-10-CM |
| F18.15  | Inhalant abuse with inhalant-induced psychotic disorder  | Diagnosis     | ICD-10-CM |
| F18.150 | Inhalant abuse with inhalant-induced psychotic disorder with delusions                         | Diagnosis     | ICD-10-CM |
| F18.151 | Inhalant abuse with inhalant-induced psychotic disorder with hallucinations                    | Diagnosis     | ICD-10-CM |
| F18.159 | Inhalant abuse with inhalant-induced psychotic disorder, unspecified                           | Diagnosis     | ICD-10-CM |
| F18.17  | Inhalant abuse with inhalant-induced dementia  | Diagnosis     | ICD-10-CM |
| F18.18  | Inhalant abuse with other inhalant-induced disorders   | Diagnosis     | ICD-10-CM |
| F18.180 | Inhalant abuse with inhalant-induced anxiety disorder  | Diagnosis     | ICD-10-CM |
| F18.188 | Inhalant abuse with other inhalant-induced disorder  | Diagnosis     | ICD-10-CM |
| F18.19  | Inhalant abuse with unspecified inhalant-induced disorder                                      | Diagnosis     | ICD-10-CM |
| F18.2   | Inhalant dependence  | Diagnosis     | ICD-10-CM |
| F18.20  | Inhalant dependence, uncomplicated   | Diagnosis     | ICD-10-CM |
| F18.21  | Inhalant dependence, in remission  | Diagnosis     | ICD-10-CM |
| F18.22  | Inhalant dependence with intoxication  | Diagnosis     | ICD-10-CM |
| F18.220 | Inhalant dependence with intoxication, uncomplicated   | Diagnosis     | ICD-10-CM |
| F18.221 | Inhalant dependence with intoxication delirium   | Diagnosis     | ICD-10-CM |
| F18.229 | Inhalant dependence with intoxication, unspecified   | Diagnosis     | ICD-10-CM |
| F18.24  | Inhalant dependence with inhalant-induced mood disorder  | Diagnosis     | ICD-10-CM |
| F18.25  | Inhalant dependence with inhalant-induced psychotic disorder                                   | Diagnosis     | ICD-10-CM |
| F18.250 | Inhalant dependence with inhalant-induced psychotic disorder with delusions                    | Diagnosis     | ICD-10-CM |
| F18.251 | Inhalant dependence with inhalant-induced psychotic disorder with hallucinations               | Diagnosis     | ICD-10-CM |
| F18.259 | Inhalant dependence with inhalant-induced psychotic disorder, unspecified                      | Diagnosis     | ICD-10-CM |
| F18.27  | Inhalant dependence with inhalant-induced dementia   | Diagnosis     | ICD-10-CM |
| F18.28  | Inhalant dependence with other inhalant-induced disorders                                      | Diagnosis     | ICD-10-CM |
| F18.280 | Inhalant dependence with inhalant-induced anxiety disorder                                     | Diagnosis     | ICD-10-CM |
| F18.288 | Inhalant dependence with other inhalant-induced disorder                                       | Diagnosis     | ICD-10-CM |
| F18.29  | Inhalant dependence with unspecified inhalant-induced disorder                                 | Diagnosis     | ICD-10-CM |
| F18.9   | Inhalant use, unspecified  | Diagnosis     | ICD-10-CM |
| F18.90  | Inhalant use, unspecified, uncomplicated   | Diagnosis     | ICD-10-CM |
| F18.91  | Inhalant use, unspecified, in remission  | Diagnosis     | ICD-10-CM |
| F18.92  | Inhalant use, unspecified with intoxication  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| F18.920 | Inhalant use, unspecified with intoxication, uncomplicated  | Diagnosis     | ICD-10-CM |
| F18.921 | Inhalant use, unspecified with intoxication with delirium   | Diagnosis     | ICD-10-CM |
| F18.929 | Inhalant use, unspecified with intoxication, unspecified  | Diagnosis     | ICD-10-CM |
| F18.94  | Inhalant use, unspecified with inhalant-induced mood disorder   | Diagnosis     | ICD-10-CM |
| F18.95  | Inhalant use, unspecified with inhalant-induced psychotic disorder  | Diagnosis     | ICD-10-CM |
| F18.950 | Inhalant use, unspecified with inhalant-induced psychotic disorder with delusions                             | Diagnosis     | ICD-10-CM |
| F18.951 | Inhalant use, unspecified with inhalant-induced psychotic disorder with hallucinations                        | Diagnosis     | ICD-10-CM |
| F18.959 | Inhalant use, unspecified with inhalant-induced psychotic disorder, unspecified                               | Diagnosis     | ICD-10-CM |
| F18.97  | Inhalant use, unspecified with inhalant-induced persisting dementia   | Diagnosis     | ICD-10-CM |
| F18.98  | Inhalant use, unspecified with other inhalant-induced disorders   | Diagnosis     | ICD-10-CM |
| F18.980 | Inhalant use, unspecified with inhalant-induced anxiety disorder  | Diagnosis     | ICD-10-CM |
| F18.988 | Inhalant use, unspecified with other inhalant-induced disorder  | Diagnosis     | ICD-10-CM |
| F18.99  | Inhalant use, unspecified with unspecified inhalant-induced disorder  | Diagnosis     | ICD-10-CM |
| F19.1   | Other psychoactive substance abuse  | Diagnosis     | ICD-10-CM |
| F19.10  | Other psychoactive substance abuse, uncomplicated   | Diagnosis     | ICD-10-CM |
| F19.11  | Other psychoactive substance abuse, in remission  | Diagnosis     | ICD-10-CM |
| F19.12  | Other psychoactive substance abuse with intoxication  | Diagnosis     | ICD-10-CM |
| F19.120 | Other psychoactive substance abuse with intoxication, uncomplicated   | Diagnosis     | ICD-10-CM |
| F19.121 | Other psychoactive substance abuse with intoxication delirium   | Diagnosis     | ICD-10-CM |
| F19.122 | Other psychoactive substance abuse with intoxication with perceptual disturbances                             | Diagnosis     | ICD-10-CM |
| F19.129 | Other psychoactive substance abuse with intoxication, unspecified   | Diagnosis     | ICD-10-CM |
| F19.13  | Other psychoactive substance abuse with withdrawal  | Diagnosis     | ICD-10-CM |
| F19.130 | Other psychoactive substance abuse with withdrawal, uncomplicated   | Diagnosis     | ICD-10-CM |
| F19.131 | Other psychoactive substance abuse with withdrawal delirium   | Diagnosis     | ICD-10-CM |
| F19.132 | Other psychoactive substance abuse with withdrawal with perceptual disturbance                                | Diagnosis     | ICD-10-CM |
| F19.139 | Other psychoactive substance abuse with withdrawal, unspecified   | Diagnosis     | ICD-10-CM |
| F19.14  | Other psychoactive substance abuse with psychoactive substance-induced mood disorder                          | Diagnosis     | ICD-10-CM |
| F19.15  | Other psychoactive substance abuse with psychoactive substance-induced psychotic disorder                     | Diagnosis     | ICD-10-CM |
| F19.150 | Other psychoactive substance abuse with psychoactive substance-induced psychotic disorder with delusions      | Diagnosis     | ICD-10-CM |
| F19.151 | Other psychoactive substance abuse with psychoactive substance-induced psychotic disorder with hallucinations | Diagnosis     | ICD-10-CM |
| F19.159 | Other psychoactive substance abuse with psychoactive substance-induced psychotic disorder, unspecified        | Diagnosis     | ICD-10-CM |
| F19.16  | Other psychoactive substance abuse with psychoactive substance-induced persisting amnestic disorder           | Diagnosis     | ICD-10-CM |
| F19.17  | Other psychoactive substance abuse with psychoactive substance-induced persisting dementia                    | Diagnosis     | ICD-10-CM |
| F19.18  | Other psychoactive substance abuse with other psychoactive substance-induced disorders                        | Diagnosis     | ICD-10-CM |
| F19.180 | Other psychoactive substance abuse with psychoactive substance-induced anxiety disorder                       | Diagnosis     | ICD-10-CM |
| F19.181 | Other psychoactive substance abuse with psychoactive substance-induced sexual dysfunction                     | Diagnosis     | ICD-10-CM |
| F19.182 | Other psychoactive substance abuse with psychoactive substance-induced sleep disorder                         | Diagnosis     | ICD-10-CM |
| F19.188 | Other psychoactive substance abuse with other psychoactive substance-induced disorder                         | Diagnosis     | ICD-10-CM |
| F19.19  | Other psychoactive substance abuse with unspecified psychoactive substance-induced disorder                   | Diagnosis     | ICD-10-CM |
| F19.2   | Other psychoactive substance dependence   | Diagnosis     | ICD-10-CM |
| F19.20  | Other psychoactive substance dependence, uncomplicated  | Diagnosis     | ICD-10-CM |
| F19.21  | Other psychoactive substance dependence, in remission   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| F19.22  | Other psychoactive substance dependence with intoxication  | Diagnosis     | ICD-10-CM |
| F19.220 | Other psychoactive substance dependence with intoxication, uncomplicated   | Diagnosis     | ICD-10-CM |
| F19.221 | Other psychoactive substance dependence with intoxication delirium   | Diagnosis     | ICD-10-CM |
| F19.222 | Other psychoactive substance dependence with intoxication with perceptual disturbance                              | Diagnosis     | ICD-10-CM |
| F19.229 | Other psychoactive substance dependence with intoxication, unspecified   | Diagnosis     | ICD-10-CM |
| F19.23  | Other psychoactive substance dependence with withdrawal  | Diagnosis     | ICD-10-CM |
| F19.230 | Other psychoactive substance dependence with withdrawal, uncomplicated   | Diagnosis     | ICD-10-CM |
| F19.231 | Other psychoactive substance dependence with withdrawal delirium   | Diagnosis     | ICD-10-CM |
| F19.232 | Other psychoactive substance dependence with withdrawal with perceptual disturbance                                | Diagnosis     | ICD-10-CM |
| F19.239 | Other psychoactive substance dependence with withdrawal, unspecified   | Diagnosis     | ICD-10-CM |
| F19.24  | Other psychoactive substance dependence with psychoactive substance-induced mood disorder                          | Diagnosis     | ICD-10-CM |
| F19.25  | Other psychoactive substance dependence with psychoactive substance-induced psychotic disorder                     | Diagnosis     | ICD-10-CM |
| F19.250 | Other psychoactive substance dependence with psychoactive substance-induced psychotic disorder with delusions      | Diagnosis     | ICD-10-CM |
| F19.251 | Other psychoactive substance dependence with psychoactive substance-induced psychotic disorder with hallucinations | Diagnosis     | ICD-10-CM |
| F19.259 | Other psychoactive substance dependence with psychoactive substance-induced psychotic disorder, unspecified        | Diagnosis     | ICD-10-CM |
| F19.26  | Other psychoactive substance dependence with psychoactive substance-induced persisting amnesic disorder            | Diagnosis     | ICD-10-CM |
| F19.27  | Other psychoactive substance dependence with psychoactive substance-induced persisting dementia                    | Diagnosis     | ICD-10-CM |
| F19.28  | Other psychoactive substance dependence with other psychoactive substance-induced disorders                        | Diagnosis     | ICD-10-CM |
| F19.280 | Other psychoactive substance dependence with psychoactive substance-induced anxiety disorder                       | Diagnosis     | ICD-10-CM |
| F19.281 | Other psychoactive substance dependence with psychoactive substance-induced sexual dysfunction                     | Diagnosis     | ICD-10-CM |
| F19.282 | Other psychoactive substance dependence with psychoactive substance-induced sleep disorder                         | Diagnosis     | ICD-10-CM |
| F19.288 | Other psychoactive substance dependence with other psychoactive substance-induced disorder                         | Diagnosis     | ICD-10-CM |
| F19.29  | Other psychoactive substance dependence with unspecified psychoactive substance-induced disorder                   | Diagnosis     | ICD-10-CM |
| F19.9   | Other psychoactive substance use, unspecified  | Diagnosis     | ICD-10-CM |
| F19.90  | Other psychoactive substance use, unspecified, uncomplicated   | Diagnosis     | ICD-10-CM |
| F19.91  | Other psychoactive substance use, unspecified, in remission  | Diagnosis     | ICD-10-CM |
| F19.92  | Other psychoactive substance use, unspecified with intoxication  | Diagnosis     | ICD-10-CM |
| F19.920 | Other psychoactive substance use, unspecified with intoxication, uncomplicated                                     | Diagnosis     | ICD-10-CM |
| F19.921 | Other psychoactive substance use, unspecified with intoxication with delirium                                      | Diagnosis     | ICD-10-CM |
| F19.922 | Other psychoactive substance use, unspecified with intoxication with perceptual disturbance                        | Diagnosis     | ICD-10-CM |
| F19.929 | Other psychoactive substance use, unspecified with intoxication, unspecified                                       | Diagnosis     | ICD-10-CM |
| F19.93  | Other psychoactive substance use, unspecified with withdrawal  | Diagnosis     | ICD-10-CM |
| F19.930 | Other psychoactive substance use, unspecified with withdrawal, uncomplicated                                       | Diagnosis     | ICD-10-CM |
| F19.931 | Other psychoactive substance use, unspecified with withdrawal delirium   | Diagnosis     | ICD-10-CM |
| F19.932 | Other psychoactive substance use, unspecified with withdrawal with perceptual disturbance                          | Diagnosis     | ICD-10-CM |
| F19.939 | Other psychoactive substance use, unspecified with withdrawal, unspecified   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code                           | Description  | Code Category | Code Type |
|--------------------------------|--|---------------|-----------|
| F19.94                         | Other psychoactive substance use, unspecified with psychoactive substance-induced mood disorder                                      | Diagnosis     | ICD-10-CM |
| F19.95                         | Other psychoactive substance use, unspecified with psychoactive substance-induced psychotic disorder                                 | Diagnosis     | ICD-10-CM |
| F19.950                        | Other psychoactive substance use, unspecified with psychoactive substance-induced psychotic disorder with delusions                  | Diagnosis     | ICD-10-CM |
| F19.951                        | Other psychoactive substance use, unspecified with psychoactive substance-induced psychotic disorder with hallucinations             | Diagnosis     | ICD-10-CM |
| F19.959                        | Other psychoactive substance use, unspecified with psychoactive substance-induced psychotic disorder, unspecified                    | Diagnosis     | ICD-10-CM |
| F19.96                         | Other psychoactive substance use, unspecified with psychoactive substance-induced persisting amnesic disorder                        | Diagnosis     | ICD-10-CM |
| F19.97                         | Other psychoactive substance use, unspecified with psychoactive substance-induced persisting dementia                                | Diagnosis     | ICD-10-CM |
| F19.98                         | Other psychoactive substance use, unspecified with other psychoactive substance-induced disorders                                    | Diagnosis     | ICD-10-CM |
| F19.980                        | Other psychoactive substance use, unspecified with psychoactive substance-induced anxiety disorder                                   | Diagnosis     | ICD-10-CM |
| F19.981                        | Other psychoactive substance use, unspecified with psychoactive substance-induced sexual dysfunction                                 | Diagnosis     | ICD-10-CM |
| F19.982                        | Other psychoactive substance use, unspecified with psychoactive substance-induced sleep disorder                                     | Diagnosis     | ICD-10-CM |
| F19.988                        | Other psychoactive substance use, unspecified with other psychoactive substance-induced disorder                                     | Diagnosis     | ICD-10-CM |
| F19.99                         | Other psychoactive substance use, unspecified with unspecified psychoactive substance-induced disorder                               | Diagnosis     | ICD-10-CM |
| F55.0                          | Abuse of antacids  | Diagnosis     | ICD-10-CM |
| F55.1                          | Abuse of herbal or folk remedies   | Diagnosis     | ICD-10-CM |
| F55.2                          | Abuse of laxatives   | Diagnosis     | ICD-10-CM |
| F55.3                          | Abuse of steroids or hormones  | Diagnosis     | ICD-10-CM |
| F55.4                          | Abuse of vitamins  | Diagnosis     | ICD-10-CM |
| F55.8                          | Abuse of other non-psychoactive substances   | Diagnosis     | ICD-10-CM |
| Z71.51                         | Drug abuse counseling and surveillance of drug abuser  | Diagnosis     | ICD-10-CM |
| <b>Eating Disorders</b>        |  |               |           |
| F50.0                          | Anorexia nervosa   | Diagnosis     | ICD-10-CM |
| F50.00                         | Anorexia nervosa, unspecified  | Diagnosis     | ICD-10-CM |
| F50.01                         | Anorexia nervosa, restricting type   | Diagnosis     | ICD-10-CM |
| F50.02                         | Anorexia nervosa, binge eating/purging type  | Diagnosis     | ICD-10-CM |
| F50.2                          | Bulimia nervosa  | Diagnosis     | ICD-10-CM |
| F50.8                          | Other eating disorders   | Diagnosis     | ICD-10-CM |
| F50.81                         | Binge eating disorder  | Diagnosis     | ICD-10-CM |
| F50.82                         | Avoidant/restrictive food intake disorder  | Diagnosis     | ICD-10-CM |
| F50.89                         | Other specified eating disorder  | Diagnosis     | ICD-10-CM |
| F50.9                          | Eating disorder, unspecified   | Diagnosis     | ICD-10-CM |
| <b>Epilepsy or convulsions</b> |  |               |           |
| G40.0                          | Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with seizures of localized onset                  | Diagnosis     | ICD-10-CM |
| G40.00                         | Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with seizures of localized onset, not intractable | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| G40.001 | Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with seizures of localized onset, not intractable, with status epilepticus    | Diagnosis     | ICD-10-CM |
| G40.009 | Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with seizures of localized onset, not intractable, without status epilepticus | Diagnosis     | ICD-10-CM |
| G40.01  | Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with seizures of localized onset, intractable                                 | Diagnosis     | ICD-10-CM |
| G40.011 | Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with seizures of localized onset, intractable, with status epilepticus        | Diagnosis     | ICD-10-CM |
| G40.019 | Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with seizures of localized onset, intractable, without status epilepticus     | Diagnosis     | ICD-10-CM |
| G40.1   | Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures   | Diagnosis     | ICD-10-CM |
| G40.10  | Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures, not intractable                                | Diagnosis     | ICD-10-CM |
| G40.101 | Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures, not intractable, with status epilepticus       | Diagnosis     | ICD-10-CM |
| G40.109 | Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures, not intractable, without status epilepticus    | Diagnosis     | ICD-10-CM |
| G40.11  | Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures, intractable                                    | Diagnosis     | ICD-10-CM |
| G40.111 | Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures, intractable, with status epilepticus           | Diagnosis     | ICD-10-CM |
| G40.119 | Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures, intractable, without status epilepticus        | Diagnosis     | ICD-10-CM |
| G40.2   | Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures  | Diagnosis     | ICD-10-CM |
| G40.20  | Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures, not intractable                               | Diagnosis     | ICD-10-CM |
| G40.201 | Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures, not intractable, with status epilepticus      | Diagnosis     | ICD-10-CM |
| G40.209 | Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures, not intractable, without status epilepticus   | Diagnosis     | ICD-10-CM |
| G40.21  | Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures, intractable                                   | Diagnosis     | ICD-10-CM |
| G40.211 | Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures, intractable, with status epilepticus          | Diagnosis     | ICD-10-CM |
| G40.219 | Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures, intractable, without status epilepticus       | Diagnosis     | ICD-10-CM |
| G40.3   | Generalized idiopathic epilepsy and epileptic syndromes  | Diagnosis     | ICD-10-CM |
| G40.30  | Generalized idiopathic epilepsy and epileptic syndromes, not intractable   | Diagnosis     | ICD-10-CM |
| G40.301 | Generalized idiopathic epilepsy and epileptic syndromes, not intractable, with status epilepticus  | Diagnosis     | ICD-10-CM |
| G40.309 | Generalized idiopathic epilepsy and epileptic syndromes, not intractable, without status epilepticus   | Diagnosis     | ICD-10-CM |
| G40.31  | Generalized idiopathic epilepsy and epileptic syndromes, intractable   | Diagnosis     | ICD-10-CM |
| G40.311 | Generalized idiopathic epilepsy and epileptic syndromes, intractable, with status epilepticus  | Diagnosis     | ICD-10-CM |
| G40.319 | Generalized idiopathic epilepsy and epileptic syndromes, intractable, without status epilepticus   | Diagnosis     | ICD-10-CM |
| G40.4   | Other generalized epilepsy and epileptic syndromes   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| G40.40  | Other generalized epilepsy and epileptic syndromes, not intractable                             | Diagnosis     | ICD-10-CM |
| G40.401 | Other generalized epilepsy and epileptic syndromes, not intractable, with status epilepticus    | Diagnosis     | ICD-10-CM |
| G40.409 | Other generalized epilepsy and epileptic syndromes, not intractable, without status epilepticus | Diagnosis     | ICD-10-CM |
| G40.41  | Other generalized epilepsy and epileptic syndromes, intractable                                 | Diagnosis     | ICD-10-CM |
| G40.411 | Other generalized epilepsy and epileptic syndromes, intractable, with status epilepticus        | Diagnosis     | ICD-10-CM |
| G40.419 | Other generalized epilepsy and epileptic syndromes, intractable, without status epilepticus     | Diagnosis     | ICD-10-CM |
| G40.42  | Cyclin-Dependent Kinase-Like 5 Deficiency Disorder  | Diagnosis     | ICD-10-CM |
| G40.5   | Epileptic seizures related to external causes   | Diagnosis     | ICD-10-CM |
| G40.50  | Epileptic seizures related to external causes, not intractable                                  | Diagnosis     | ICD-10-CM |
| G40.501 | Epileptic seizures related to external causes, not intractable, with status epilepticus         | Diagnosis     | ICD-10-CM |
| G40.509 | Epileptic seizures related to external causes, not intractable, without status epilepticus      | Diagnosis     | ICD-10-CM |
| G40.8   | Other epilepsy and recurrent seizures   | Diagnosis     | ICD-10-CM |
| G40.80  | Other epilepsy  | Diagnosis     | ICD-10-CM |
| G40.801 | Other epilepsy, not intractable, with status epilepticus  | Diagnosis     | ICD-10-CM |
| G40.802 | Other epilepsy, not intractable, without status epilepticus                                     | Diagnosis     | ICD-10-CM |
| G40.803 | Other epilepsy, intractable, with status epilepticus  | Diagnosis     | ICD-10-CM |
| G40.804 | Other epilepsy, intractable, without status epilepticus   | Diagnosis     | ICD-10-CM |
| G40.81  | Lennox-Gastaut syndrome   | Diagnosis     | ICD-10-CM |
| G40.811 | Lennox-Gastaut syndrome, not intractable, with status epilepticus                               | Diagnosis     | ICD-10-CM |
| G40.812 | Lennox-Gastaut syndrome, not intractable, without status epilepticus                            | Diagnosis     | ICD-10-CM |
| G40.813 | Lennox-Gastaut syndrome, intractable, with status epilepticus                                   | Diagnosis     | ICD-10-CM |
| G40.814 | Lennox-Gastaut syndrome, intractable, without status epilepticus                                | Diagnosis     | ICD-10-CM |
| G40.82  | Epileptic spasms  | Diagnosis     | ICD-10-CM |
| G40.821 | Epileptic spasms, not intractable, with status epilepticus                                      | Diagnosis     | ICD-10-CM |
| G40.822 | Epileptic spasms, not intractable, without status epilepticus                                   | Diagnosis     | ICD-10-CM |
| G40.823 | Epileptic spasms, intractable, with status epilepticus  | Diagnosis     | ICD-10-CM |
| G40.824 | Epileptic spasms, intractable, without status epilepticus                                       | Diagnosis     | ICD-10-CM |
| G40.83  | Dravet syndrome   | Diagnosis     | ICD-10-CM |
| G40.833 | Dravet syndrome, intractable, with status epilepticus   | Diagnosis     | ICD-10-CM |
| G40.834 | Dravet syndrome, intractable, without status epilepticus  | Diagnosis     | ICD-10-CM |
| G40.89  | Other seizures  | Diagnosis     | ICD-10-CM |
| G40.9   | Epilepsy, unspecified   | Diagnosis     | ICD-10-CM |
| G40.90  | Epilepsy, unspecified, not intractable  | Diagnosis     | ICD-10-CM |
| G40.901 | Epilepsy, unspecified, not intractable, with status epilepticus                                 | Diagnosis     | ICD-10-CM |
| G40.909 | Epilepsy, unspecified, not intractable, without status epilepticus                              | Diagnosis     | ICD-10-CM |
| G40.91  | Epilepsy, unspecified, intractable  | Diagnosis     | ICD-10-CM |
| G40.911 | Epilepsy, unspecified, intractable, with status epilepticus                                     | Diagnosis     | ICD-10-CM |
| G40.919 | Epilepsy, unspecified, intractable, without status epilepticus                                  | Diagnosis     | ICD-10-CM |
| G40.A   | Absence epileptic syndrome  | Diagnosis     | ICD-10-CM |
| G40.A0  | Absence epileptic syndrome, not intractable   | Diagnosis     | ICD-10-CM |
| G40.A01 | Absence epileptic syndrome, not intractable, with status epilepticus                            | Diagnosis     | ICD-10-CM |
| G40.A09 | Absence epileptic syndrome, not intractable, without status epilepticus                         | Diagnosis     | ICD-10-CM |
| G40.A1  | Absence epileptic syndrome, intractable   | Diagnosis     | ICD-10-CM |
| G40.A11 | Absence epileptic syndrome, intractable, with status epilepticus                                | Diagnosis     | ICD-10-CM |
| G40.A19 | Absence epileptic syndrome, intractable, without status epilepticus                             | Diagnosis     | ICD-10-CM |
| G40.B   | Juvenile myoclonic epilepsy [impulsive petit mal]   | Diagnosis     | ICD-10-CM |
| G40.B0  | Juvenile myoclonic epilepsy, not intractable  | Diagnosis     | ICD-10-CM |
| G40.B01 | Juvenile myoclonic epilepsy, not intractable, with status epilepticus                           | Diagnosis     | ICD-10-CM |
| G40.B09 | Juvenile myoclonic epilepsy, not intractable, without status epilepticus                        | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code                 | Description   | Code Category | Code Type |
|----------------------|---|---------------|-----------|
| G40.B1               | Juvenile myoclonic epilepsy, intractable  | Diagnosis     | ICD-10-CM |
| G40.B11              | Juvenile myoclonic epilepsy, intractable, with status epilepticus                 | Diagnosis     | ICD-10-CM |
| G40.B19              | Juvenile myoclonic epilepsy, intractable, without status epilepticus              | Diagnosis     | ICD-10-CM |
| R56.0                | Febrile convulsions   | Diagnosis     | ICD-10-CM |
| R56.00               | Simple febrile convulsions  | Diagnosis     | ICD-10-CM |
| R56.01               | Complex febrile convulsions   | Diagnosis     | ICD-10-CM |
| R56.1                | Post traumatic seizures   | Diagnosis     | ICD-10-CM |
| R56.9                | Unspecified convulsions   | Diagnosis     | ICD-10-CM |
| <b>GI Conditions</b> |   |               |           |
| K20.0                | Eosinophilic esophagitis  | Diagnosis     | ICD-10-CM |
| K20.8                | Other esophagitis   | Diagnosis     | ICD-10-CM |
| K20.80               | Other esophagitis without bleeding  | Diagnosis     | ICD-10-CM |
| K20.81               | Other esophagitis with bleeding   | Diagnosis     | ICD-10-CM |
| K20.9                | Esophagitis, unspecified  | Diagnosis     | ICD-10-CM |
| K20.90               | Esophagitis, unspecified without bleeding   | Diagnosis     | ICD-10-CM |
| K20.91               | Esophagitis, unspecified with bleeding  | Diagnosis     | ICD-10-CM |
| K21.0                | Gastro-esophageal reflux disease with esophagitis                                 | Diagnosis     | ICD-10-CM |
| K21.00               | Gastro-esophageal reflux disease with esophagitis, without bleeding               | Diagnosis     | ICD-10-CM |
| K21.01               | Gastro-esophageal reflux disease with esophagitis, with bleeding                  | Diagnosis     | ICD-10-CM |
| K21.9                | Gastro-esophageal reflux disease without esophagitis                              | Diagnosis     | ICD-10-CM |
| K22.0                | Achalasia of cardia   | Diagnosis     | ICD-10-CM |
| K22.1                | Ulcer of esophagus  | Diagnosis     | ICD-10-CM |
| K22.10               | Ulcer of esophagus without bleeding   | Diagnosis     | ICD-10-CM |
| K22.11               | Ulcer of esophagus with bleeding  | Diagnosis     | ICD-10-CM |
| K22.2                | Esophageal obstruction  | Diagnosis     | ICD-10-CM |
| K22.3                | Perforation of esophagus  | Diagnosis     | ICD-10-CM |
| K22.4                | Dyskinesia of esophagus   | Diagnosis     | ICD-10-CM |
| K22.5                | Diverticulum of esophagus, acquired   | Diagnosis     | ICD-10-CM |
| K22.6                | Gastro-esophageal laceration-hemorrhage syndrome                                  | Diagnosis     | ICD-10-CM |
| K22.7                | Barrett's esophagus   | Diagnosis     | ICD-10-CM |
| K22.70               | Barrett's esophagus without dysplasia   | Diagnosis     | ICD-10-CM |
| K22.71               | Barrett's esophagus with dysplasia  | Diagnosis     | ICD-10-CM |
| K22.710              | Barrett's esophagus with low grade dysplasia                                      | Diagnosis     | ICD-10-CM |
| K22.711              | Barrett's esophagus with high grade dysplasia                                     | Diagnosis     | ICD-10-CM |
| K22.719              | Barrett's esophagus with dysplasia, unspecified                                   | Diagnosis     | ICD-10-CM |
| K22.8                | Other specified diseases of esophagus   | Diagnosis     | ICD-10-CM |
| K22.81               | Esophageal polyp  | Diagnosis     | ICD-10-CM |
| K22.82               | Esophagogastric junction polyp  | Diagnosis     | ICD-10-CM |
| K22.89               | Other specified disease of esophagus  | Diagnosis     | ICD-10-CM |
| K22.9                | Disease of esophagus, unspecified   | Diagnosis     | ICD-10-CM |
| K23                  | Disorders of esophagus in diseases classified elsewhere                           | Diagnosis     | ICD-10-CM |
| K25.0                | Acute gastric ulcer with hemorrhage   | Diagnosis     | ICD-10-CM |
| K25.1                | Acute gastric ulcer with perforation  | Diagnosis     | ICD-10-CM |
| K25.2                | Acute gastric ulcer with both hemorrhage and perforation                          | Diagnosis     | ICD-10-CM |
| K25.3                | Acute gastric ulcer without hemorrhage or perforation                             | Diagnosis     | ICD-10-CM |
| K25.4                | Chronic or unspecified gastric ulcer with hemorrhage                              | Diagnosis     | ICD-10-CM |
| K25.5                | Chronic or unspecified gastric ulcer with perforation                             | Diagnosis     | ICD-10-CM |
| K25.6                | Chronic or unspecified gastric ulcer with both hemorrhage and perforation         | Diagnosis     | ICD-10-CM |
| K25.7                | Chronic gastric ulcer without hemorrhage or perforation                           | Diagnosis     | ICD-10-CM |
| K25.9                | Gastric ulcer, unspecified as acute or chronic, without hemorrhage or perforation | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description  | Code Category | Code Type |
|--------|--|---------------|-----------|
| K26.0  | Acute duodenal ulcer with hemorrhage   | Diagnosis     | ICD-10-CM |
| K26.1  | Acute duodenal ulcer with perforation  | Diagnosis     | ICD-10-CM |
| K26.2  | Acute duodenal ulcer with both hemorrhage and perforation  | Diagnosis     | ICD-10-CM |
| K26.3  | Acute duodenal ulcer without hemorrhage or perforation   | Diagnosis     | ICD-10-CM |
| K26.4  | Chronic or unspecified duodenal ulcer with hemorrhage  | Diagnosis     | ICD-10-CM |
| K26.5  | Chronic or unspecified duodenal ulcer with perforation   | Diagnosis     | ICD-10-CM |
| K26.6  | Chronic or unspecified duodenal ulcer with both hemorrhage and perforation                         | Diagnosis     | ICD-10-CM |
| K26.7  | Chronic duodenal ulcer without hemorrhage or perforation   | Diagnosis     | ICD-10-CM |
| K26.9  | Duodenal ulcer, unspecified as acute or chronic, without hemorrhage or perforation                 | Diagnosis     | ICD-10-CM |
| K27.0  | Acute peptic ulcer, site unspecified, with hemorrhage  | Diagnosis     | ICD-10-CM |
| K27.1  | Acute peptic ulcer, site unspecified, with perforation   | Diagnosis     | ICD-10-CM |
| K27.2  | Acute peptic ulcer, site unspecified, with both hemorrhage and perforation                         | Diagnosis     | ICD-10-CM |
| K27.3  | Acute peptic ulcer, site unspecified, without hemorrhage or perforation                            | Diagnosis     | ICD-10-CM |
| K27.4  | Chronic or unspecified peptic ulcer, site unspecified, with hemorrhage                             | Diagnosis     | ICD-10-CM |
| K27.5  | Chronic or unspecified peptic ulcer, site unspecified, with perforation                            | Diagnosis     | ICD-10-CM |
| K27.6  | Chronic or unspecified peptic ulcer, site unspecified, with both hemorrhage and perforation        | Diagnosis     | ICD-10-CM |
| K27.7  | Chronic peptic ulcer, site unspecified, without hemorrhage or perforation                          | Diagnosis     | ICD-10-CM |
| K27.9  | Peptic ulcer, site unspecified, unspecified as acute or chronic, without hemorrhage or perforation | Diagnosis     | ICD-10-CM |
| K28.0  | Acute gastrojejunal ulcer with hemorrhage  | Diagnosis     | ICD-10-CM |
| K28.1  | Acute gastrojejunal ulcer with perforation   | Diagnosis     | ICD-10-CM |
| K28.2  | Acute gastrojejunal ulcer with both hemorrhage and perforation                                     | Diagnosis     | ICD-10-CM |
| K28.3  | Acute gastrojejunal ulcer without hemorrhage or perforation  | Diagnosis     | ICD-10-CM |
| K28.4  | Chronic or unspecified gastrojejunal ulcer with hemorrhage   | Diagnosis     | ICD-10-CM |
| K28.5  | Chronic or unspecified gastrojejunal ulcer with perforation  | Diagnosis     | ICD-10-CM |
| K28.6  | Chronic or unspecified gastrojejunal ulcer with both hemorrhage and perforation                    | Diagnosis     | ICD-10-CM |
| K28.7  | Chronic gastrojejunal ulcer without hemorrhage or perforation                                      | Diagnosis     | ICD-10-CM |
| K28.9  | Gastrojejunal ulcer, unspecified as acute or chronic, without hemorrhage or perforation            | Diagnosis     | ICD-10-CM |
| K29.0  | Acute gastritis  | Diagnosis     | ICD-10-CM |
| K29.00 | Acute gastritis without bleeding   | Diagnosis     | ICD-10-CM |
| K29.01 | Acute gastritis with bleeding  | Diagnosis     | ICD-10-CM |
| K29.2  | Alcoholic gastritis  | Diagnosis     | ICD-10-CM |
| K29.20 | Alcoholic gastritis without bleeding   | Diagnosis     | ICD-10-CM |
| K29.21 | Alcoholic gastritis with bleeding  | Diagnosis     | ICD-10-CM |
| K29.3  | Chronic superficial gastritis  | Diagnosis     | ICD-10-CM |
| K29.30 | Chronic superficial gastritis without bleeding   | Diagnosis     | ICD-10-CM |
| K29.31 | Chronic superficial gastritis with bleeding  | Diagnosis     | ICD-10-CM |
| K29.4  | Chronic atrophic gastritis   | Diagnosis     | ICD-10-CM |
| K29.40 | Chronic atrophic gastritis without bleeding  | Diagnosis     | ICD-10-CM |
| K29.41 | Chronic atrophic gastritis with bleeding   | Diagnosis     | ICD-10-CM |
| K29.5  | Unspecified chronic gastritis  | Diagnosis     | ICD-10-CM |
| K29.50 | Unspecified chronic gastritis without bleeding   | Diagnosis     | ICD-10-CM |
| K29.51 | Unspecified chronic gastritis with bleeding  | Diagnosis     | ICD-10-CM |
| K29.6  | Other gastritis  | Diagnosis     | ICD-10-CM |
| K29.60 | Other gastritis without bleeding   | Diagnosis     | ICD-10-CM |
| K29.61 | Other gastritis with bleeding  | Diagnosis     | ICD-10-CM |
| K29.7  | Gastritis, unspecified   | Diagnosis     | ICD-10-CM |
| K29.70 | Gastritis, unspecified, without bleeding   | Diagnosis     | ICD-10-CM |
| K29.71 | Gastritis, unspecified, with bleeding  | Diagnosis     | ICD-10-CM |
| K29.8  | Duodenitis   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| K29.80  | Duodenitis without bleeding  | Diagnosis     | ICD-10-CM |
| K29.81  | Duodenitis with bleeding   | Diagnosis     | ICD-10-CM |
| K29.9   | Gastroduodenitis, unspecified  | Diagnosis     | ICD-10-CM |
| K29.90  | Gastroduodenitis, unspecified, without bleeding                              | Diagnosis     | ICD-10-CM |
| K29.91  | Gastroduodenitis, unspecified, with bleeding                                 | Diagnosis     | ICD-10-CM |
| K30     | Functional dyspepsia   | Diagnosis     | ICD-10-CM |
| K31.0   | Acute dilatation of stomach  | Diagnosis     | ICD-10-CM |
| K31.1   | Adult hypertrophic pyloric stenosis  | Diagnosis     | ICD-10-CM |
| K31.2   | Hourglass stricture and stenosis of stomach                                  | Diagnosis     | ICD-10-CM |
| K31.3   | Pylorospasm, not elsewhere classified  | Diagnosis     | ICD-10-CM |
| K31.4   | Gastric diverticulum   | Diagnosis     | ICD-10-CM |
| K31.5   | Obstruction of duodenum  | Diagnosis     | ICD-10-CM |
| K31.6   | Fistula of stomach and duodenum  | Diagnosis     | ICD-10-CM |
| K31.7   | Polyp of stomach and duodenum  | Diagnosis     | ICD-10-CM |
| K31.8   | Other specified diseases of stomach and duodenum                             | Diagnosis     | ICD-10-CM |
| K31.81  | Angiodysplasia of stomach and duodenum                                       | Diagnosis     | ICD-10-CM |
| K31.811 | Angiodysplasia of stomach and duodenum with bleeding                         | Diagnosis     | ICD-10-CM |
| K31.819 | Angiodysplasia of stomach and duodenum without bleeding                      | Diagnosis     | ICD-10-CM |
| K31.82  | Dieulafoy lesion (hemorrhagic) of stomach and duodenum                       | Diagnosis     | ICD-10-CM |
| K31.83  | Achlorhydria   | Diagnosis     | ICD-10-CM |
| K31.84  | Gastroparesis  | Diagnosis     | ICD-10-CM |
| K31.89  | Other diseases of stomach and duodenum                                       | Diagnosis     | ICD-10-CM |
| K31.9   | Disease of stomach and duodenum, unspecified                                 | Diagnosis     | ICD-10-CM |
| K31.A   | Gastric intestinal metaplasia  | Diagnosis     | ICD-10-CM |
| K31.A0  | Gastric intestinal metaplasia, unspecified                                   | Diagnosis     | ICD-10-CM |
| K31.A1  | Gastric intestinal metaplasia without dysplasia                              | Diagnosis     | ICD-10-CM |
| K31.A11 | Gastric intestinal metaplasia without dysplasia, involving the antrum        | Diagnosis     | ICD-10-CM |
| K31.A12 | Gastric intestinal metaplasia without dysplasia, involving the body (corpus) | Diagnosis     | ICD-10-CM |
| K31.A13 | Gastric intestinal metaplasia without dysplasia, involving the fundus        | Diagnosis     | ICD-10-CM |
| K31.A14 | Gastric intestinal metaplasia without dysplasia, involving the cardia        | Diagnosis     | ICD-10-CM |
| K31.A15 | Gastric intestinal metaplasia without dysplasia, involving multiple sites    | Diagnosis     | ICD-10-CM |
| K31.A19 | Gastric intestinal metaplasia without dysplasia, unspecified site            | Diagnosis     | ICD-10-CM |
| K31.A2  | Gastric intestinal metaplasia with dysplasia                                 | Diagnosis     | ICD-10-CM |
| K31.A21 | Gastric intestinal metaplasia with low grade dysplasia                       | Diagnosis     | ICD-10-CM |
| K31.A22 | Gastric intestinal metaplasia with high grade dysplasia                      | Diagnosis     | ICD-10-CM |
| K31.A29 | Gastric intestinal metaplasia with dysplasia, unspecified                    | Diagnosis     | ICD-10-CM |
| K50.0   | Crohn's disease of small intestine   | Diagnosis     | ICD-10-CM |
| K50.00  | Crohn's disease of small intestine without complications                     | Diagnosis     | ICD-10-CM |
| K50.01  | Crohn's disease of small intestine with complications                        | Diagnosis     | ICD-10-CM |
| K50.011 | Crohn's disease of small intestine with rectal bleeding                      | Diagnosis     | ICD-10-CM |
| K50.012 | Crohn's disease of small intestine with intestinal obstruction               | Diagnosis     | ICD-10-CM |
| K50.013 | Crohn's disease of small intestine with fistula                              | Diagnosis     | ICD-10-CM |
| K50.014 | Crohn's disease of small intestine with abscess                              | Diagnosis     | ICD-10-CM |
| K50.018 | Crohn's disease of small intestine with other complication                   | Diagnosis     | ICD-10-CM |
| K50.019 | Crohn's disease of small intestine with unspecified complications            | Diagnosis     | ICD-10-CM |
| K50.1   | Crohn's disease of large intestine   | Diagnosis     | ICD-10-CM |
| K50.10  | Crohn's disease of large intestine without complications                     | Diagnosis     | ICD-10-CM |
| K50.11  | Crohn's disease of large intestine with complications                        | Diagnosis     | ICD-10-CM |
| K50.111 | Crohn's disease of large intestine with rectal bleeding                      | Diagnosis     | ICD-10-CM |
| K50.112 | Crohn's disease of large intestine with intestinal obstruction               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| K50.113 | Crohn's disease of large intestine with fistula                                  | Diagnosis     | ICD-10-CM |
| K50.114 | Crohn's disease of large intestine with abscess                                  | Diagnosis     | ICD-10-CM |
| K50.118 | Crohn's disease of large intestine with other complication                       | Diagnosis     | ICD-10-CM |
| K50.119 | Crohn's disease of large intestine with unspecified complications                | Diagnosis     | ICD-10-CM |
| K50.8   | Crohn's disease of both small and large intestine                                | Diagnosis     | ICD-10-CM |
| K50.80  | Crohn's disease of both small and large intestine without complications          | Diagnosis     | ICD-10-CM |
| K50.81  | Crohn's disease of both small and large intestine with complications             | Diagnosis     | ICD-10-CM |
| K50.811 | Crohn's disease of both small and large intestine with rectal bleeding           | Diagnosis     | ICD-10-CM |
| K50.812 | Crohn's disease of both small and large intestine with intestinal obstruction    | Diagnosis     | ICD-10-CM |
| K50.813 | Crohn's disease of both small and large intestine with fistula                   | Diagnosis     | ICD-10-CM |
| K50.814 | Crohn's disease of both small and large intestine with abscess                   | Diagnosis     | ICD-10-CM |
| K50.818 | Crohn's disease of both small and large intestine with other complication        | Diagnosis     | ICD-10-CM |
| K50.819 | Crohn's disease of both small and large intestine with unspecified complications | Diagnosis     | ICD-10-CM |
| K50.9   | Crohn's disease, unspecified   | Diagnosis     | ICD-10-CM |
| K50.90  | Crohn's disease, unspecified, without complications                              | Diagnosis     | ICD-10-CM |
| K50.91  | Crohn's disease, unspecified, with complications                                 | Diagnosis     | ICD-10-CM |
| K50.911 | Crohn's disease, unspecified, with rectal bleeding                               | Diagnosis     | ICD-10-CM |
| K50.912 | Crohn's disease, unspecified, with intestinal obstruction                        | Diagnosis     | ICD-10-CM |
| K50.913 | Crohn's disease, unspecified, with fistula                                       | Diagnosis     | ICD-10-CM |
| K50.914 | Crohn's disease, unspecified, with abscess                                       | Diagnosis     | ICD-10-CM |
| K50.918 | Crohn's disease, unspecified, with other complication                            | Diagnosis     | ICD-10-CM |
| K50.919 | Crohn's disease, unspecified, with unspecified complications                     | Diagnosis     | ICD-10-CM |
| K51.0   | Ulcerative (chronic) pancolitis  | Diagnosis     | ICD-10-CM |
| K51.00  | Ulcerative (chronic) pancolitis without complications                            | Diagnosis     | ICD-10-CM |
| K51.01  | Ulcerative (chronic) pancolitis with complications                               | Diagnosis     | ICD-10-CM |
| K51.011 | Ulcerative (chronic) pancolitis with rectal bleeding                             | Diagnosis     | ICD-10-CM |
| K51.012 | Ulcerative (chronic) pancolitis with intestinal obstruction                      | Diagnosis     | ICD-10-CM |
| K51.013 | Ulcerative (chronic) pancolitis with fistula                                     | Diagnosis     | ICD-10-CM |
| K51.014 | Ulcerative (chronic) pancolitis with abscess                                     | Diagnosis     | ICD-10-CM |
| K51.018 | Ulcerative (chronic) pancolitis with other complication                          | Diagnosis     | ICD-10-CM |
| K51.019 | Ulcerative (chronic) pancolitis with unspecified complications                   | Diagnosis     | ICD-10-CM |
| K51.2   | Ulcerative (chronic) proctitis   | Diagnosis     | ICD-10-CM |
| K51.20  | Ulcerative (chronic) proctitis without complications                             | Diagnosis     | ICD-10-CM |
| K51.21  | Ulcerative (chronic) proctitis with complications                                | Diagnosis     | ICD-10-CM |
| K51.211 | Ulcerative (chronic) proctitis with rectal bleeding                              | Diagnosis     | ICD-10-CM |
| K51.212 | Ulcerative (chronic) proctitis with intestinal obstruction                       | Diagnosis     | ICD-10-CM |
| K51.213 | Ulcerative (chronic) proctitis with fistula                                      | Diagnosis     | ICD-10-CM |
| K51.214 | Ulcerative (chronic) proctitis with abscess                                      | Diagnosis     | ICD-10-CM |
| K51.218 | Ulcerative (chronic) proctitis with other complication                           | Diagnosis     | ICD-10-CM |
| K51.219 | Ulcerative (chronic) proctitis with unspecified complications                    | Diagnosis     | ICD-10-CM |
| K51.3   | Ulcerative (chronic) rectosigmoiditis  | Diagnosis     | ICD-10-CM |
| K51.30  | Ulcerative (chronic) rectosigmoiditis without complications                      | Diagnosis     | ICD-10-CM |
| K51.31  | Ulcerative (chronic) rectosigmoiditis with complications                         | Diagnosis     | ICD-10-CM |
| K51.311 | Ulcerative (chronic) rectosigmoiditis with rectal bleeding                       | Diagnosis     | ICD-10-CM |
| K51.312 | Ulcerative (chronic) rectosigmoiditis with intestinal obstruction                | Diagnosis     | ICD-10-CM |
| K51.313 | Ulcerative (chronic) rectosigmoiditis with fistula                               | Diagnosis     | ICD-10-CM |
| K51.314 | Ulcerative (chronic) rectosigmoiditis with abscess                               | Diagnosis     | ICD-10-CM |
| K51.318 | Ulcerative (chronic) rectosigmoiditis with other complication                    | Diagnosis     | ICD-10-CM |
| K51.319 | Ulcerative (chronic) rectosigmoiditis with unspecified complications             | Diagnosis     | ICD-10-CM |
| K51.4   | Inflammatory polyps of colon   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| K51.40  | Inflammatory polyps of colon without complications             | Diagnosis     | ICD-10-CM |
| K51.41  | Inflammatory polyps of colon with complications                | Diagnosis     | ICD-10-CM |
| K51.411 | Inflammatory polyps of colon with rectal bleeding              | Diagnosis     | ICD-10-CM |
| K51.412 | Inflammatory polyps of colon with intestinal obstruction       | Diagnosis     | ICD-10-CM |
| K51.413 | Inflammatory polyps of colon with fistula                      | Diagnosis     | ICD-10-CM |
| K51.414 | Inflammatory polyps of colon with abscess                      | Diagnosis     | ICD-10-CM |
| K51.418 | Inflammatory polyps of colon with other complication           | Diagnosis     | ICD-10-CM |
| K51.419 | Inflammatory polyps of colon with unspecified complications    | Diagnosis     | ICD-10-CM |
| K51.5   | Left sided colitis   | Diagnosis     | ICD-10-CM |
| K51.50  | Left sided colitis without complications                       | Diagnosis     | ICD-10-CM |
| K51.51  | Left sided colitis with complications                          | Diagnosis     | ICD-10-CM |
| K51.511 | Left sided colitis with rectal bleeding                        | Diagnosis     | ICD-10-CM |
| K51.512 | Left sided colitis with intestinal obstruction                 | Diagnosis     | ICD-10-CM |
| K51.513 | Left sided colitis with fistula                                | Diagnosis     | ICD-10-CM |
| K51.514 | Left sided colitis with abscess                                | Diagnosis     | ICD-10-CM |
| K51.518 | Left sided colitis with other complication                     | Diagnosis     | ICD-10-CM |
| K51.519 | Left sided colitis with unspecified complications              | Diagnosis     | ICD-10-CM |
| K51.8   | Other ulcerative colitis                                       | Diagnosis     | ICD-10-CM |
| K51.80  | Other ulcerative colitis without complications                 | Diagnosis     | ICD-10-CM |
| K51.81  | Other ulcerative colitis with complications                    | Diagnosis     | ICD-10-CM |
| K51.811 | Other ulcerative colitis with rectal bleeding                  | Diagnosis     | ICD-10-CM |
| K51.812 | Other ulcerative colitis with intestinal obstruction           | Diagnosis     | ICD-10-CM |
| K51.813 | Other ulcerative colitis with fistula                          | Diagnosis     | ICD-10-CM |
| K51.814 | Other ulcerative colitis with abscess                          | Diagnosis     | ICD-10-CM |
| K51.818 | Other ulcerative colitis with other complication               | Diagnosis     | ICD-10-CM |
| K51.819 | Other ulcerative colitis with unspecified complications        | Diagnosis     | ICD-10-CM |
| K51.9   | Ulcerative colitis, unspecified                                | Diagnosis     | ICD-10-CM |
| K51.90  | Ulcerative colitis, unspecified, without complications         | Diagnosis     | ICD-10-CM |
| K51.91  | Ulcerative colitis, unspecified, with complications            | Diagnosis     | ICD-10-CM |
| K51.911 | Ulcerative colitis, unspecified with rectal bleeding           | Diagnosis     | ICD-10-CM |
| K51.912 | Ulcerative colitis, unspecified with intestinal obstruction    | Diagnosis     | ICD-10-CM |
| K51.913 | Ulcerative colitis, unspecified with fistula                   | Diagnosis     | ICD-10-CM |
| K51.914 | Ulcerative colitis, unspecified with abscess                   | Diagnosis     | ICD-10-CM |
| K51.918 | Ulcerative colitis, unspecified with other complication        | Diagnosis     | ICD-10-CM |
| K51.919 | Ulcerative colitis, unspecified with unspecified complications | Diagnosis     | ICD-10-CM |
| K52.0   | Gastroenteritis and colitis due to radiation                   | Diagnosis     | ICD-10-CM |
| K52.1   | Toxic gastroenteritis and colitis                              | Diagnosis     | ICD-10-CM |
| K52.2   | Allergic and dietetic gastroenteritis and colitis              | Diagnosis     | ICD-10-CM |
| K52.21  | Food protein-induced enterocolitis syndrome                    | Diagnosis     | ICD-10-CM |
| K52.22  | Food protein-induced enteropathy                               | Diagnosis     | ICD-10-CM |
| K52.29  | Other allergic and dietetic gastroenteritis and colitis        | Diagnosis     | ICD-10-CM |
| K52.3   | Indeterminate colitis  | Diagnosis     | ICD-10-CM |
| K52.8   | Other specified noninfective gastroenteritis and colitis       | Diagnosis     | ICD-10-CM |
| K52.81  | Eosinophilic gastritis or gastroenteritis                      | Diagnosis     | ICD-10-CM |
| K52.82  | Eosinophilic colitis   | Diagnosis     | ICD-10-CM |
| K52.83  | Microscopic colitis  | Diagnosis     | ICD-10-CM |
| K52.831 | Collagenous colitis  | Diagnosis     | ICD-10-CM |
| K52.832 | Lymphocytic colitis  | Diagnosis     | ICD-10-CM |
| K52.838 | Other microscopic colitis                                      | Diagnosis     | ICD-10-CM |
| K52.839 | Microscopic colitis, unspecified                               | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code            | Description   | Code Category | Code Type |
|-----------------|---|---------------|-----------|
| K52.89          | Other specified noninfective gastroenteritis and colitis      | Diagnosis     | ICD-10-CM |
| K52.9           | Noninfective gastroenteritis and colitis, unspecified         | Diagnosis     | ICD-10-CM |
| K58.0           | Irritable bowel syndrome with diarrhea                        | Diagnosis     | ICD-10-CM |
| K58.1           | Irritable bowel syndrome with constipation                    | Diagnosis     | ICD-10-CM |
| K58.2           | Mixed irritable bowel syndrome                                | Diagnosis     | ICD-10-CM |
| K58.8           | Other irritable bowel syndrome                                | Diagnosis     | ICD-10-CM |
| K58.9           | Irritable bowel syndrome without diarrhea                     | Diagnosis     | ICD-10-CM |
| K62.0           | Anal polyp  | Diagnosis     | ICD-10-CM |
| K62.1           | Rectal polyp  | Diagnosis     | ICD-10-CM |
| K62.2           | Anal prolapse   | Diagnosis     | ICD-10-CM |
| K62.3           | Rectal prolapse   | Diagnosis     | ICD-10-CM |
| K62.4           | Stenosis of anus and rectum                                   | Diagnosis     | ICD-10-CM |
| K62.5           | Hemorrhage of anus and rectum                                 | Diagnosis     | ICD-10-CM |
| K62.6           | Ulcer of anus and rectum                                      | Diagnosis     | ICD-10-CM |
| K62.7           | Radiation proctitis   | Diagnosis     | ICD-10-CM |
| K62.8           | Other specified diseases of anus and rectum                   | Diagnosis     | ICD-10-CM |
| K62.81          | Anal sphincter tear (healed) (nontraumatic) (old)             | Diagnosis     | ICD-10-CM |
| K62.82          | Dysplasia of anus   | Diagnosis     | ICD-10-CM |
| K62.89          | Other specified diseases of anus and rectum                   | Diagnosis     | ICD-10-CM |
| K62.9           | Disease of anus and rectum, unspecified                       | Diagnosis     | ICD-10-CM |
| K92.0           | Hematemesis   | Diagnosis     | ICD-10-CM |
| K92.1           | Melena  | Diagnosis     | ICD-10-CM |
| K92.2           | Gastrointestinal hemorrhage, unspecified                      | Diagnosis     | ICD-10-CM |
| K92.8           | Other specified diseases of the digestive system              | Diagnosis     | ICD-10-CM |
| K92.81          | Gastrointestinal mucositis (ulcerative)                       | Diagnosis     | ICD-10-CM |
| K92.89          | Other specified diseases of the digestive system              | Diagnosis     | ICD-10-CM |
| K92.9           | Disease of digestive system, unspecified                      | Diagnosis     | ICD-10-CM |
| Z87.1           | Personal history of diseases of the digestive system          | Diagnosis     | ICD-10-CM |
| Z87.11          | Personal history of peptic ulcer disease                      | Diagnosis     | ICD-10-CM |
| Z87.19          | Personal history of other diseases of the digestive system    | Diagnosis     | ICD-10-CM |
| <b>Injuries</b> |   |               |           |
| S00             | Superficial injury of head                                    | Diagnosis     | ICD-10-CM |
| S00.0           | Superficial injury of scalp                                   | Diagnosis     | ICD-10-CM |
| S00.00          | Unspecified superficial injury of scalp                       | Diagnosis     | ICD-10-CM |
| S00.00XA        | Unspecified superficial injury of scalp, initial encounter    | Diagnosis     | ICD-10-CM |
| S00.00XD        | Unspecified superficial injury of scalp, subsequent encounter | Diagnosis     | ICD-10-CM |
| S00.00XS        | Unspecified superficial injury of scalp, sequela              | Diagnosis     | ICD-10-CM |
| S00.01          | Abrasion of scalp   | Diagnosis     | ICD-10-CM |
| S00.01XA        | Abrasion of scalp, initial encounter                          | Diagnosis     | ICD-10-CM |
| S00.01XD        | Abrasion of scalp, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S00.01XS        | Abrasion of scalp, sequela                                    | Diagnosis     | ICD-10-CM |
| S00.02          | Blister (nonthermal) of scalp                                 | Diagnosis     | ICD-10-CM |
| S00.02XA        | Blister (nonthermal) of scalp, initial encounter              | Diagnosis     | ICD-10-CM |
| S00.02XD        | Blister (nonthermal) of scalp, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S00.02XS        | Blister (nonthermal) of scalp, sequela                        | Diagnosis     | ICD-10-CM |
| S00.03          | Contusion of scalp  | Diagnosis     | ICD-10-CM |
| S00.03XA        | Contusion of scalp, initial encounter                         | Diagnosis     | ICD-10-CM |
| S00.03XD        | Contusion of scalp, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S00.03XS        | Contusion of scalp, sequela                                   | Diagnosis     | ICD-10-CM |
| S00.04          | External constriction of part of scalp                        | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S00.04XA | External constriction of part of scalp, initial encounter                                      | Diagnosis     | ICD-10-CM |
| S00.04XD | External constriction of part of scalp, subsequent encounter                                   | Diagnosis     | ICD-10-CM |
| S00.04XS | External constriction of part of scalp, sequela  | Diagnosis     | ICD-10-CM |
| S00.05   | Superficial foreign body of scalp  | Diagnosis     | ICD-10-CM |
| S00.05XA | Superficial foreign body of scalp, initial encounter   | Diagnosis     | ICD-10-CM |
| S00.05XD | Superficial foreign body of scalp, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S00.05XS | Superficial foreign body of scalp, sequela   | Diagnosis     | ICD-10-CM |
| S00.06   | Insect bite (nonvenomous) of scalp   | Diagnosis     | ICD-10-CM |
| S00.06XA | Insect bite (nonvenomous) of scalp, initial encounter  | Diagnosis     | ICD-10-CM |
| S00.06XD | Insect bite (nonvenomous) of scalp, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S00.06XS | Insect bite (nonvenomous) of scalp, sequela  | Diagnosis     | ICD-10-CM |
| S00.07   | Other superficial bite of scalp  | Diagnosis     | ICD-10-CM |
| S00.07XA | Other superficial bite of scalp, initial encounter   | Diagnosis     | ICD-10-CM |
| S00.07XD | Other superficial bite of scalp, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S00.07XS | Other superficial bite of scalp, sequela   | Diagnosis     | ICD-10-CM |
| S00.1    | Contusion of eyelid and periocular area  | Diagnosis     | ICD-10-CM |
| S00.10   | Contusion of unspecified eyelid and periocular area  | Diagnosis     | ICD-10-CM |
| S00.10XA | Contusion of unspecified eyelid and periocular area, initial encounter                         | Diagnosis     | ICD-10-CM |
| S00.10XD | Contusion of unspecified eyelid and periocular area, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S00.10XS | Contusion of unspecified eyelid and periocular area, sequela                                   | Diagnosis     | ICD-10-CM |
| S00.11   | Contusion of right eyelid and periocular area  | Diagnosis     | ICD-10-CM |
| S00.11XA | Contusion of right eyelid and periocular area, initial encounter                               | Diagnosis     | ICD-10-CM |
| S00.11XD | Contusion of right eyelid and periocular area, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S00.11XS | Contusion of right eyelid and periocular area, sequela   | Diagnosis     | ICD-10-CM |
| S00.12   | Contusion of left eyelid and periocular area   | Diagnosis     | ICD-10-CM |
| S00.12XA | Contusion of left eyelid and periocular area, initial encounter                                | Diagnosis     | ICD-10-CM |
| S00.12XD | Contusion of left eyelid and periocular area, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S00.12XS | Contusion of left eyelid and periocular area, sequela  | Diagnosis     | ICD-10-CM |
| S00.2    | Other and unspecified superficial injuries of eyelid and periocular area                       | Diagnosis     | ICD-10-CM |
| S00.20   | Unspecified superficial injury of eyelid and periocular area                                   | Diagnosis     | ICD-10-CM |
| S00.201  | Unspecified superficial injury of right eyelid and periocular area                             | Diagnosis     | ICD-10-CM |
| S00.201A | Unspecified superficial injury of right eyelid and periocular area, initial encounter          | Diagnosis     | ICD-10-CM |
| S00.201D | Unspecified superficial injury of right eyelid and periocular area, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S00.201S | Unspecified superficial injury of right eyelid and periocular area, sequela                    | Diagnosis     | ICD-10-CM |
| S00.202  | Unspecified superficial injury of left eyelid and periocular area                              | Diagnosis     | ICD-10-CM |
| S00.202A | Unspecified superficial injury of left eyelid and periocular area, initial encounter           | Diagnosis     | ICD-10-CM |
| S00.202D | Unspecified superficial injury of left eyelid and periocular area, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S00.202S | Unspecified superficial injury of left eyelid and periocular area, sequela                     | Diagnosis     | ICD-10-CM |
| S00.209  | Unspecified superficial injury of unspecified eyelid and periocular area                       | Diagnosis     | ICD-10-CM |
| S00.209A | Unspecified superficial injury of unspecified eyelid and periocular area, initial encounter    | Diagnosis     | ICD-10-CM |
| S00.209D | Unspecified superficial injury of unspecified eyelid and periocular area, subsequent encounter | Diagnosis     | ICD-10-CM |
| S00.209S | Unspecified superficial injury of unspecified eyelid and periocular area, sequela              | Diagnosis     | ICD-10-CM |
| S00.21   | Abrasion of eyelid and periocular area   | Diagnosis     | ICD-10-CM |
| S00.211  | Abrasion of right eyelid and periocular area   | Diagnosis     | ICD-10-CM |
| S00.211A | Abrasion of right eyelid and periocular area, initial encounter                                | Diagnosis     | ICD-10-CM |
| S00.211D | Abrasion of right eyelid and periocular area, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S00.211S | Abrasion of right eyelid and periocular area, sequela  | Diagnosis     | ICD-10-CM |
| S00.212  | Abrasion of left eyelid and periocular area  | Diagnosis     | ICD-10-CM |
| S00.212A | Abrasion of left eyelid and periocular area, initial encounter                                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S00.212D | Abrasion of left eyelid and periocular area, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S00.212S | Abrasion of left eyelid and periocular area, sequela                                     | Diagnosis     | ICD-10-CM |
| S00.219  | Abrasion of unspecified eyelid and periocular area                                       | Diagnosis     | ICD-10-CM |
| S00.219A | Abrasion of unspecified eyelid and periocular area, initial encounter                    | Diagnosis     | ICD-10-CM |
| S00.219D | Abrasion of unspecified eyelid and periocular area, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S00.219S | Abrasion of unspecified eyelid and periocular area, sequela                              | Diagnosis     | ICD-10-CM |
| S00.22   | Blister (nonthermal) of eyelid and periocular area                                       | Diagnosis     | ICD-10-CM |
| S00.221  | Blister (nonthermal) of right eyelid and periocular area                                 | Diagnosis     | ICD-10-CM |
| S00.221A | Blister (nonthermal) of right eyelid and periocular area, initial encounter              | Diagnosis     | ICD-10-CM |
| S00.221D | Blister (nonthermal) of right eyelid and periocular area, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S00.221S | Blister (nonthermal) of right eyelid and periocular area, sequela                        | Diagnosis     | ICD-10-CM |
| S00.222  | Blister (nonthermal) of left eyelid and periocular area                                  | Diagnosis     | ICD-10-CM |
| S00.222A | Blister (nonthermal) of left eyelid and periocular area, initial encounter               | Diagnosis     | ICD-10-CM |
| S00.222D | Blister (nonthermal) of left eyelid and periocular area, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S00.222S | Blister (nonthermal) of left eyelid and periocular area, sequela                         | Diagnosis     | ICD-10-CM |
| S00.229  | Blister (nonthermal) of unspecified eyelid and periocular area                           | Diagnosis     | ICD-10-CM |
| S00.229A | Blister (nonthermal) of unspecified eyelid and periocular area, initial encounter        | Diagnosis     | ICD-10-CM |
| S00.229D | Blister (nonthermal) of unspecified eyelid and periocular area, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S00.229S | Blister (nonthermal) of unspecified eyelid and periocular area, sequela                  | Diagnosis     | ICD-10-CM |
| S00.24   | External constriction of eyelid and periocular area                                      | Diagnosis     | ICD-10-CM |
| S00.241  | External constriction of right eyelid and periocular area                                | Diagnosis     | ICD-10-CM |
| S00.241A | External constriction of right eyelid and periocular area, initial encounter             | Diagnosis     | ICD-10-CM |
| S00.241D | External constriction of right eyelid and periocular area, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S00.241S | External constriction of right eyelid and periocular area, sequela                       | Diagnosis     | ICD-10-CM |
| S00.242  | External constriction of left eyelid and periocular area                                 | Diagnosis     | ICD-10-CM |
| S00.242A | External constriction of left eyelid and periocular area, initial encounter              | Diagnosis     | ICD-10-CM |
| S00.242D | External constriction of left eyelid and periocular area, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S00.242S | External constriction of left eyelid and periocular area, sequela                        | Diagnosis     | ICD-10-CM |
| S00.249  | External constriction of unspecified eyelid and periocular area                          | Diagnosis     | ICD-10-CM |
| S00.249A | External constriction of unspecified eyelid and periocular area, initial encounter       | Diagnosis     | ICD-10-CM |
| S00.249D | External constriction of unspecified eyelid and periocular area, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S00.249S | External constriction of unspecified eyelid and periocular area, sequela                 | Diagnosis     | ICD-10-CM |
| S00.25   | Superficial foreign body of eyelid and periocular area                                   | Diagnosis     | ICD-10-CM |
| S00.251  | Superficial foreign body of right eyelid and periocular area                             | Diagnosis     | ICD-10-CM |
| S00.251A | Superficial foreign body of right eyelid and periocular area, initial encounter          | Diagnosis     | ICD-10-CM |
| S00.251D | Superficial foreign body of right eyelid and periocular area, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S00.251S | Superficial foreign body of right eyelid and periocular area, sequela                    | Diagnosis     | ICD-10-CM |
| S00.252  | Superficial foreign body of left eyelid and periocular area                              | Diagnosis     | ICD-10-CM |
| S00.252A | Superficial foreign body of left eyelid and periocular area, initial encounter           | Diagnosis     | ICD-10-CM |
| S00.252D | Superficial foreign body of left eyelid and periocular area, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S00.252S | Superficial foreign body of left eyelid and periocular area, sequela                     | Diagnosis     | ICD-10-CM |
| S00.259  | Superficial foreign body of unspecified eyelid and periocular area                       | Diagnosis     | ICD-10-CM |
| S00.259A | Superficial foreign body of unspecified eyelid and periocular area, initial encounter    | Diagnosis     | ICD-10-CM |
| S00.259D | Superficial foreign body of unspecified eyelid and periocular area, subsequent encounter | Diagnosis     | ICD-10-CM |
| S00.259S | Superficial foreign body of unspecified eyelid and periocular area, sequela              | Diagnosis     | ICD-10-CM |
| S00.26   | Insect bite (nonvenomous) of eyelid and periocular area                                  | Diagnosis     | ICD-10-CM |
| S00.261  | Insect bite (nonvenomous) of right eyelid and periocular area                            | Diagnosis     | ICD-10-CM |
| S00.261A | Insect bite (nonvenomous) of right eyelid and periocular area, initial encounter         | Diagnosis     | ICD-10-CM |
| S00.261D | Insect bite (nonvenomous) of right eyelid and periocular area, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S00.261S | Insect bite (nonvenomous) of right eyelid and periocular area, sequela                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S00.262  | Insect bite (nonvenomous) of left eyelid and periocular area                              | Diagnosis     | ICD-10-CM |
| S00.262A | Insect bite (nonvenomous) of left eyelid and periocular area, initial encounter           | Diagnosis     | ICD-10-CM |
| S00.262D | Insect bite (nonvenomous) of left eyelid and periocular area, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S00.262S | Insect bite (nonvenomous) of left eyelid and periocular area, sequela                     | Diagnosis     | ICD-10-CM |
| S00.269  | Insect bite (nonvenomous) of unspecified eyelid and periocular area                       | Diagnosis     | ICD-10-CM |
| S00.269A | Insect bite (nonvenomous) of unspecified eyelid and periocular area, initial encounter    | Diagnosis     | ICD-10-CM |
| S00.269D | Insect bite (nonvenomous) of unspecified eyelid and periocular area, subsequent encounter | Diagnosis     | ICD-10-CM |
| S00.269S | Insect bite (nonvenomous) of unspecified eyelid and periocular area, sequela              | Diagnosis     | ICD-10-CM |
| S00.27   | Other superficial bite of eyelid and periocular area                                      | Diagnosis     | ICD-10-CM |
| S00.271  | Other superficial bite of right eyelid and periocular area                                | Diagnosis     | ICD-10-CM |
| S00.271A | Other superficial bite of right eyelid and periocular area, initial encounter             | Diagnosis     | ICD-10-CM |
| S00.271D | Other superficial bite of right eyelid and periocular area, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S00.271S | Other superficial bite of right eyelid and periocular area, sequela                       | Diagnosis     | ICD-10-CM |
| S00.272  | Other superficial bite of left eyelid and periocular area                                 | Diagnosis     | ICD-10-CM |
| S00.272A | Other superficial bite of left eyelid and periocular area, initial encounter              | Diagnosis     | ICD-10-CM |
| S00.272D | Other superficial bite of left eyelid and periocular area, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S00.272S | Other superficial bite of left eyelid and periocular area, sequela                        | Diagnosis     | ICD-10-CM |
| S00.279  | Other superficial bite of unspecified eyelid and periocular area                          | Diagnosis     | ICD-10-CM |
| S00.279A | Other superficial bite of unspecified eyelid and periocular area, initial encounter       | Diagnosis     | ICD-10-CM |
| S00.279D | Other superficial bite of unspecified eyelid and periocular area, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S00.279S | Other superficial bite of unspecified eyelid and periocular area, sequela                 | Diagnosis     | ICD-10-CM |
| S00.3    | Superficial injury of nose  | Diagnosis     | ICD-10-CM |
| S00.30   | Unspecified superficial injury of nose  | Diagnosis     | ICD-10-CM |
| S00.30XA | Unspecified superficial injury of nose, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S00.30XD | Unspecified superficial injury of nose, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S00.30XS | Unspecified superficial injury of nose, sequela   | Diagnosis     | ICD-10-CM |
| S00.31   | Abrasion of nose  | Diagnosis     | ICD-10-CM |
| S00.31XA | Abrasion of nose, initial encounter   | Diagnosis     | ICD-10-CM |
| S00.31XD | Abrasion of nose, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S00.31XS | Abrasion of nose, sequela   | Diagnosis     | ICD-10-CM |
| S00.32   | Blister (nonthermal) of nose  | Diagnosis     | ICD-10-CM |
| S00.32XA | Blister (nonthermal) of nose, initial encounter   | Diagnosis     | ICD-10-CM |
| S00.32XD | Blister (nonthermal) of nose, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S00.32XS | Blister (nonthermal) of nose, sequela   | Diagnosis     | ICD-10-CM |
| S00.33   | Contusion of nose   | Diagnosis     | ICD-10-CM |
| S00.33XA | Contusion of nose, initial encounter  | Diagnosis     | ICD-10-CM |
| S00.33XD | Contusion of nose, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S00.33XS | Contusion of nose, sequela  | Diagnosis     | ICD-10-CM |
| S00.34   | External constriction of nose   | Diagnosis     | ICD-10-CM |
| S00.34XA | External constriction of nose, initial encounter  | Diagnosis     | ICD-10-CM |
| S00.34XD | External constriction of nose, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S00.34XS | External constriction of nose, sequela  | Diagnosis     | ICD-10-CM |
| S00.35   | Superficial foreign body of nose  | Diagnosis     | ICD-10-CM |
| S00.35XA | Superficial foreign body of nose, initial encounter                                       | Diagnosis     | ICD-10-CM |
| S00.35XD | Superficial foreign body of nose, subsequent encounter                                    | Diagnosis     | ICD-10-CM |
| S00.35XS | Superficial foreign body of nose, sequela   | Diagnosis     | ICD-10-CM |
| S00.36   | Insect bite (nonvenomous) of nose   | Diagnosis     | ICD-10-CM |
| S00.36XA | Insect bite (nonvenomous) of nose, initial encounter                                      | Diagnosis     | ICD-10-CM |
| S00.36XD | Insect bite (nonvenomous) of nose, subsequent encounter                                   | Diagnosis     | ICD-10-CM |
| S00.36XS | Insect bite (nonvenomous) of nose, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S00.37   | Other superficial bite of nose  | Diagnosis     | ICD-10-CM |
| S00.37XA | Other superficial bite of nose, initial encounter                       | Diagnosis     | ICD-10-CM |
| S00.37XD | Other superficial bite of nose, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S00.37XS | Other superficial bite of nose, sequela                                 | Diagnosis     | ICD-10-CM |
| S00.4    | Superficial injury of ear   | Diagnosis     | ICD-10-CM |
| S00.40   | Unspecified superficial injury of ear                                   | Diagnosis     | ICD-10-CM |
| S00.401  | Unspecified superficial injury of right ear                             | Diagnosis     | ICD-10-CM |
| S00.401A | Unspecified superficial injury of right ear, initial encounter          | Diagnosis     | ICD-10-CM |
| S00.401D | Unspecified superficial injury of right ear, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S00.401S | Unspecified superficial injury of right ear, sequela                    | Diagnosis     | ICD-10-CM |
| S00.402  | Unspecified superficial injury of left ear                              | Diagnosis     | ICD-10-CM |
| S00.402A | Unspecified superficial injury of left ear, initial encounter           | Diagnosis     | ICD-10-CM |
| S00.402D | Unspecified superficial injury of left ear, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S00.402S | Unspecified superficial injury of left ear, sequela                     | Diagnosis     | ICD-10-CM |
| S00.409  | Unspecified superficial injury of unspecified ear                       | Diagnosis     | ICD-10-CM |
| S00.409A | Unspecified superficial injury of unspecified ear, initial encounter    | Diagnosis     | ICD-10-CM |
| S00.409D | Unspecified superficial injury of unspecified ear, subsequent encounter | Diagnosis     | ICD-10-CM |
| S00.409S | Unspecified superficial injury of unspecified ear, sequela              | Diagnosis     | ICD-10-CM |
| S00.41   | Abrasion of ear   | Diagnosis     | ICD-10-CM |
| S00.411  | Abrasion of right ear   | Diagnosis     | ICD-10-CM |
| S00.411A | Abrasion of right ear, initial encounter                                | Diagnosis     | ICD-10-CM |
| S00.411D | Abrasion of right ear, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S00.411S | Abrasion of right ear, sequela  | Diagnosis     | ICD-10-CM |
| S00.412  | Abrasion of left ear  | Diagnosis     | ICD-10-CM |
| S00.412A | Abrasion of left ear, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S00.412D | Abrasion of left ear, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S00.412S | Abrasion of left ear, sequela   | Diagnosis     | ICD-10-CM |
| S00.419  | Abrasion of unspecified ear   | Diagnosis     | ICD-10-CM |
| S00.419A | Abrasion of unspecified ear, initial encounter                          | Diagnosis     | ICD-10-CM |
| S00.419D | Abrasion of unspecified ear, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S00.419S | Abrasion of unspecified ear, sequela                                    | Diagnosis     | ICD-10-CM |
| S00.42   | Blister (nonthermal) of ear   | Diagnosis     | ICD-10-CM |
| S00.421  | Blister (nonthermal) of right ear                                       | Diagnosis     | ICD-10-CM |
| S00.421A | Blister (nonthermal) of right ear, initial encounter                    | Diagnosis     | ICD-10-CM |
| S00.421D | Blister (nonthermal) of right ear, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S00.421S | Blister (nonthermal) of right ear, sequela                              | Diagnosis     | ICD-10-CM |
| S00.422  | Blister (nonthermal) of left ear  | Diagnosis     | ICD-10-CM |
| S00.422A | Blister (nonthermal) of left ear, initial encounter                     | Diagnosis     | ICD-10-CM |
| S00.422D | Blister (nonthermal) of left ear, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S00.422S | Blister (nonthermal) of left ear, sequela                               | Diagnosis     | ICD-10-CM |
| S00.429  | Blister (nonthermal) of unspecified ear                                 | Diagnosis     | ICD-10-CM |
| S00.429A | Blister (nonthermal) of unspecified ear, initial encounter              | Diagnosis     | ICD-10-CM |
| S00.429D | Blister (nonthermal) of unspecified ear, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S00.429S | Blister (nonthermal) of unspecified ear, sequela                        | Diagnosis     | ICD-10-CM |
| S00.43   | Contusion of ear  | Diagnosis     | ICD-10-CM |
| S00.431  | Contusion of right ear  | Diagnosis     | ICD-10-CM |
| S00.431A | Contusion of right ear, initial encounter                               | Diagnosis     | ICD-10-CM |
| S00.431D | Contusion of right ear, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S00.431S | Contusion of right ear, sequela   | Diagnosis     | ICD-10-CM |
| S00.432  | Contusion of left ear   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S00.432A | Contusion of left ear, initial encounter                           | Diagnosis     | ICD-10-CM |
| S00.432D | Contusion of left ear, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S00.432S | Contusion of left ear, sequela                                     | Diagnosis     | ICD-10-CM |
| S00.439  | Contusion of unspecified ear                                       | Diagnosis     | ICD-10-CM |
| S00.439A | Contusion of unspecified ear, initial encounter                    | Diagnosis     | ICD-10-CM |
| S00.439D | Contusion of unspecified ear, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S00.439S | Contusion of unspecified ear, sequela                              | Diagnosis     | ICD-10-CM |
| S00.44   | External constriction of ear                                       | Diagnosis     | ICD-10-CM |
| S00.441  | External constriction of right ear                                 | Diagnosis     | ICD-10-CM |
| S00.441A | External constriction of right ear, initial encounter              | Diagnosis     | ICD-10-CM |
| S00.441D | External constriction of right ear, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S00.441S | External constriction of right ear, sequela                        | Diagnosis     | ICD-10-CM |
| S00.442  | External constriction of left ear                                  | Diagnosis     | ICD-10-CM |
| S00.442A | External constriction of left ear, initial encounter               | Diagnosis     | ICD-10-CM |
| S00.442D | External constriction of left ear, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S00.442S | External constriction of left ear, sequela                         | Diagnosis     | ICD-10-CM |
| S00.449  | External constriction of unspecified ear                           | Diagnosis     | ICD-10-CM |
| S00.449A | External constriction of unspecified ear, initial encounter        | Diagnosis     | ICD-10-CM |
| S00.449D | External constriction of unspecified ear, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S00.449S | External constriction of unspecified ear, sequela                  | Diagnosis     | ICD-10-CM |
| S00.45   | Superficial foreign body of ear                                    | Diagnosis     | ICD-10-CM |
| S00.451  | Superficial foreign body of right ear                              | Diagnosis     | ICD-10-CM |
| S00.451A | Superficial foreign body of right ear, initial encounter           | Diagnosis     | ICD-10-CM |
| S00.451D | Superficial foreign body of right ear, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S00.451S | Superficial foreign body of right ear, sequela                     | Diagnosis     | ICD-10-CM |
| S00.452  | Superficial foreign body of left ear                               | Diagnosis     | ICD-10-CM |
| S00.452A | Superficial foreign body of left ear, initial encounter            | Diagnosis     | ICD-10-CM |
| S00.452D | Superficial foreign body of left ear, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S00.452S | Superficial foreign body of left ear, sequela                      | Diagnosis     | ICD-10-CM |
| S00.459  | Superficial foreign body of unspecified ear                        | Diagnosis     | ICD-10-CM |
| S00.459A | Superficial foreign body of unspecified ear, initial encounter     | Diagnosis     | ICD-10-CM |
| S00.459D | Superficial foreign body of unspecified ear, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S00.459S | Superficial foreign body of unspecified ear, sequela               | Diagnosis     | ICD-10-CM |
| S00.46   | Insect bite (nonvenomous) of ear                                   | Diagnosis     | ICD-10-CM |
| S00.461  | Insect bite (nonvenomous) of right ear                             | Diagnosis     | ICD-10-CM |
| S00.461A | Insect bite (nonvenomous) of right ear, initial encounter          | Diagnosis     | ICD-10-CM |
| S00.461D | Insect bite (nonvenomous) of right ear, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S00.461S | Insect bite (nonvenomous) of right ear, sequela                    | Diagnosis     | ICD-10-CM |
| S00.462  | Insect bite (nonvenomous) of left ear                              | Diagnosis     | ICD-10-CM |
| S00.462A | Insect bite (nonvenomous) of left ear, initial encounter           | Diagnosis     | ICD-10-CM |
| S00.462D | Insect bite (nonvenomous) of left ear, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S00.462S | Insect bite (nonvenomous) of left ear, sequela                     | Diagnosis     | ICD-10-CM |
| S00.469  | Insect bite (nonvenomous) of unspecified ear                       | Diagnosis     | ICD-10-CM |
| S00.469A | Insect bite (nonvenomous) of unspecified ear, initial encounter    | Diagnosis     | ICD-10-CM |
| S00.469D | Insect bite (nonvenomous) of unspecified ear, subsequent encounter | Diagnosis     | ICD-10-CM |
| S00.469S | Insect bite (nonvenomous) of unspecified ear, sequela              | Diagnosis     | ICD-10-CM |
| S00.47   | Other superficial bite of ear                                      | Diagnosis     | ICD-10-CM |
| S00.471  | Other superficial bite of right ear                                | Diagnosis     | ICD-10-CM |
| S00.471A | Other superficial bite of right ear, initial encounter             | Diagnosis     | ICD-10-CM |
| S00.471D | Other superficial bite of right ear, subsequent encounter          | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S00.471S | Other superficial bite of right ear, sequela                        | Diagnosis     | ICD-10-CM |
| S00.472  | Other superficial bite of left ear                                  | Diagnosis     | ICD-10-CM |
| S00.472A | Other superficial bite of left ear, initial encounter               | Diagnosis     | ICD-10-CM |
| S00.472D | Other superficial bite of left ear, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S00.472S | Other superficial bite of left ear, sequela                         | Diagnosis     | ICD-10-CM |
| S00.479  | Other superficial bite of unspecified ear                           | Diagnosis     | ICD-10-CM |
| S00.479A | Other superficial bite of unspecified ear, initial encounter        | Diagnosis     | ICD-10-CM |
| S00.479D | Other superficial bite of unspecified ear, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S00.479S | Other superficial bite of unspecified ear, sequela                  | Diagnosis     | ICD-10-CM |
| S00.5    | Superficial injury of lip and oral cavity                           | Diagnosis     | ICD-10-CM |
| S00.50   | Unspecified superficial injury of lip and oral cavity               | Diagnosis     | ICD-10-CM |
| S00.501  | Unspecified superficial injury of lip                               | Diagnosis     | ICD-10-CM |
| S00.501A | Unspecified superficial injury of lip, initial encounter            | Diagnosis     | ICD-10-CM |
| S00.501D | Unspecified superficial injury of lip, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S00.501S | Unspecified superficial injury of lip, sequela                      | Diagnosis     | ICD-10-CM |
| S00.502  | Unspecified superficial injury of oral cavity                       | Diagnosis     | ICD-10-CM |
| S00.502A | Unspecified superficial injury of oral cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S00.502D | Unspecified superficial injury of oral cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S00.502S | Unspecified superficial injury of oral cavity, sequela              | Diagnosis     | ICD-10-CM |
| S00.51   | Abrasion of lip and oral cavity                                     | Diagnosis     | ICD-10-CM |
| S00.511  | Abrasion of lip   | Diagnosis     | ICD-10-CM |
| S00.511A | Abrasion of lip, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S00.511D | Abrasion of lip, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S00.511S | Abrasion of lip, sequela  | Diagnosis     | ICD-10-CM |
| S00.512  | Abrasion of oral cavity   | Diagnosis     | ICD-10-CM |
| S00.512A | Abrasion of oral cavity, initial encounter                          | Diagnosis     | ICD-10-CM |
| S00.512D | Abrasion of oral cavity, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S00.512S | Abrasion of oral cavity, sequela                                    | Diagnosis     | ICD-10-CM |
| S00.52   | Blister (nonthermal) of lip and oral cavity                         | Diagnosis     | ICD-10-CM |
| S00.521  | Blister (nonthermal) of lip   | Diagnosis     | ICD-10-CM |
| S00.521A | Blister (nonthermal) of lip, initial encounter                      | Diagnosis     | ICD-10-CM |
| S00.521D | Blister (nonthermal) of lip, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S00.521S | Blister (nonthermal) of lip, sequela                                | Diagnosis     | ICD-10-CM |
| S00.522  | Blister (nonthermal) of oral cavity                                 | Diagnosis     | ICD-10-CM |
| S00.522A | Blister (nonthermal) of oral cavity, initial encounter              | Diagnosis     | ICD-10-CM |
| S00.522D | Blister (nonthermal) of oral cavity, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S00.522S | Blister (nonthermal) of oral cavity, sequela                        | Diagnosis     | ICD-10-CM |
| S00.53   | Contusion of lip and oral cavity                                    | Diagnosis     | ICD-10-CM |
| S00.531  | Contusion of lip  | Diagnosis     | ICD-10-CM |
| S00.531A | Contusion of lip, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S00.531D | Contusion of lip, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S00.531S | Contusion of lip, sequela   | Diagnosis     | ICD-10-CM |
| S00.532  | Contusion of oral cavity  | Diagnosis     | ICD-10-CM |
| S00.532A | Contusion of oral cavity, initial encounter                         | Diagnosis     | ICD-10-CM |
| S00.532D | Contusion of oral cavity, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S00.532S | Contusion of oral cavity, sequela                                   | Diagnosis     | ICD-10-CM |
| S00.54   | External constriction of lip and oral cavity                        | Diagnosis     | ICD-10-CM |
| S00.541  | External constriction of lip  | Diagnosis     | ICD-10-CM |
| S00.541A | External constriction of lip, initial encounter                     | Diagnosis     | ICD-10-CM |
| S00.541D | External constriction of lip, subsequent encounter                  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S00.541S | External constriction of lip, sequela                                      | Diagnosis     | ICD-10-CM |
| S00.542  | External constriction of oral cavity                                       | Diagnosis     | ICD-10-CM |
| S00.542A | External constriction of oral cavity, initial encounter                    | Diagnosis     | ICD-10-CM |
| S00.542D | External constriction of oral cavity, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S00.542S | External constriction of oral cavity, sequela                              | Diagnosis     | ICD-10-CM |
| S00.55   | Superficial foreign body of lip and oral cavity                            | Diagnosis     | ICD-10-CM |
| S00.551  | Superficial foreign body of lip  | Diagnosis     | ICD-10-CM |
| S00.551A | Superficial foreign body of lip, initial encounter                         | Diagnosis     | ICD-10-CM |
| S00.551D | Superficial foreign body of lip, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S00.551S | Superficial foreign body of lip, sequela                                   | Diagnosis     | ICD-10-CM |
| S00.552  | Superficial foreign body of oral cavity                                    | Diagnosis     | ICD-10-CM |
| S00.552A | Superficial foreign body of oral cavity, initial encounter                 | Diagnosis     | ICD-10-CM |
| S00.552D | Superficial foreign body of oral cavity, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S00.552S | Superficial foreign body of oral cavity, sequela                           | Diagnosis     | ICD-10-CM |
| S00.56   | Insect bite (nonvenomous) of lip and oral cavity                           | Diagnosis     | ICD-10-CM |
| S00.561  | Insect bite (nonvenomous) of lip   | Diagnosis     | ICD-10-CM |
| S00.561A | Insect bite (nonvenomous) of lip, initial encounter                        | Diagnosis     | ICD-10-CM |
| S00.561D | Insect bite (nonvenomous) of lip, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S00.561S | Insect bite (nonvenomous) of lip, sequela                                  | Diagnosis     | ICD-10-CM |
| S00.562  | Insect bite (nonvenomous) of oral cavity                                   | Diagnosis     | ICD-10-CM |
| S00.562A | Insect bite (nonvenomous) of oral cavity, initial encounter                | Diagnosis     | ICD-10-CM |
| S00.562D | Insect bite (nonvenomous) of oral cavity, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S00.562S | Insect bite (nonvenomous) of oral cavity, sequela                          | Diagnosis     | ICD-10-CM |
| S00.57   | Other superficial bite of lip and oral cavity                              | Diagnosis     | ICD-10-CM |
| S00.571  | Other superficial bite of lip  | Diagnosis     | ICD-10-CM |
| S00.571A | Other superficial bite of lip, initial encounter                           | Diagnosis     | ICD-10-CM |
| S00.571D | Other superficial bite of lip, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S00.571S | Other superficial bite of lip, sequela                                     | Diagnosis     | ICD-10-CM |
| S00.572  | Other superficial bite of oral cavity                                      | Diagnosis     | ICD-10-CM |
| S00.572A | Other superficial bite of oral cavity, initial encounter                   | Diagnosis     | ICD-10-CM |
| S00.572D | Other superficial bite of oral cavity, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S00.572S | Other superficial bite of oral cavity, sequela                             | Diagnosis     | ICD-10-CM |
| S00.8    | Superficial injury of other parts of head                                  | Diagnosis     | ICD-10-CM |
| S00.80   | Unspecified superficial injury of other part of head                       | Diagnosis     | ICD-10-CM |
| S00.80XA | Unspecified superficial injury of other part of head, initial encounter    | Diagnosis     | ICD-10-CM |
| S00.80XD | Unspecified superficial injury of other part of head, subsequent encounter | Diagnosis     | ICD-10-CM |
| S00.80XS | Unspecified superficial injury of other part of head, sequela              | Diagnosis     | ICD-10-CM |
| S00.81   | Abrasion of other part of head   | Diagnosis     | ICD-10-CM |
| S00.81XA | Abrasion of other part of head, initial encounter                          | Diagnosis     | ICD-10-CM |
| S00.81XD | Abrasion of other part of head, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S00.81XS | Abrasion of other part of head, sequela                                    | Diagnosis     | ICD-10-CM |
| S00.82   | Blister (nonthermal) of other part of head                                 | Diagnosis     | ICD-10-CM |
| S00.82XA | Blister (nonthermal) of other part of head, initial encounter              | Diagnosis     | ICD-10-CM |
| S00.82XD | Blister (nonthermal) of other part of head, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S00.82XS | Blister (nonthermal) of other part of head, sequela                        | Diagnosis     | ICD-10-CM |
| S00.83   | Contusion of other part of head  | Diagnosis     | ICD-10-CM |
| S00.83XA | Contusion of other part of head, initial encounter                         | Diagnosis     | ICD-10-CM |
| S00.83XD | Contusion of other part of head, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S00.83XS | Contusion of other part of head, sequela                                   | Diagnosis     | ICD-10-CM |
| S00.84   | External constriction of other part of head                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S00.84XA | External constriction of other part of head, initial encounter                   | Diagnosis     | ICD-10-CM |
| S00.84XD | External constriction of other part of head, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S00.84XS | External constriction of other part of head, sequela                             | Diagnosis     | ICD-10-CM |
| S00.85   | Superficial foreign body of other part of head                                   | Diagnosis     | ICD-10-CM |
| S00.85XA | Superficial foreign body of other part of head, initial encounter                | Diagnosis     | ICD-10-CM |
| S00.85XD | Superficial foreign body of other part of head, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S00.85XS | Superficial foreign body of other part of head, sequela                          | Diagnosis     | ICD-10-CM |
| S00.86   | Insect bite (nonvenomous) of other part of head                                  | Diagnosis     | ICD-10-CM |
| S00.86XA | Insect bite (nonvenomous) of other part of head, initial encounter               | Diagnosis     | ICD-10-CM |
| S00.86XD | Insect bite (nonvenomous) of other part of head, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S00.86XS | Insect bite (nonvenomous) of other part of head, sequela                         | Diagnosis     | ICD-10-CM |
| S00.87   | Other superficial bite of other part of head                                     | Diagnosis     | ICD-10-CM |
| S00.87XA | Other superficial bite of other part of head, initial encounter                  | Diagnosis     | ICD-10-CM |
| S00.87XD | Other superficial bite of other part of head, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S00.87XS | Other superficial bite of other part of head, sequela                            | Diagnosis     | ICD-10-CM |
| S00.9    | Superficial injury of unspecified part of head                                   | Diagnosis     | ICD-10-CM |
| S00.90   | Unspecified superficial injury of unspecified part of head                       | Diagnosis     | ICD-10-CM |
| S00.90XA | Unspecified superficial injury of unspecified part of head, initial encounter    | Diagnosis     | ICD-10-CM |
| S00.90XD | Unspecified superficial injury of unspecified part of head, subsequent encounter | Diagnosis     | ICD-10-CM |
| S00.90XS | Unspecified superficial injury of unspecified part of head, sequela              | Diagnosis     | ICD-10-CM |
| S00.91   | Abrasion of unspecified part of head   | Diagnosis     | ICD-10-CM |
| S00.91XA | Abrasion of unspecified part of head, initial encounter                          | Diagnosis     | ICD-10-CM |
| S00.91XD | Abrasion of unspecified part of head, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S00.91XS | Abrasion of unspecified part of head, sequela                                    | Diagnosis     | ICD-10-CM |
| S00.92   | Blister (nonthermal) of unspecified part of head                                 | Diagnosis     | ICD-10-CM |
| S00.92XA | Blister (nonthermal) of unspecified part of head, initial encounter              | Diagnosis     | ICD-10-CM |
| S00.92XD | Blister (nonthermal) of unspecified part of head, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S00.92XS | Blister (nonthermal) of unspecified part of head, sequela                        | Diagnosis     | ICD-10-CM |
| S00.93   | Contusion of unspecified part of head  | Diagnosis     | ICD-10-CM |
| S00.93XA | Contusion of unspecified part of head, initial encounter                         | Diagnosis     | ICD-10-CM |
| S00.93XD | Contusion of unspecified part of head, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S00.93XS | Contusion of unspecified part of head, sequela                                   | Diagnosis     | ICD-10-CM |
| S00.94   | External constriction of unspecified part of head                                | Diagnosis     | ICD-10-CM |
| S00.94XA | External constriction of unspecified part of head, initial encounter             | Diagnosis     | ICD-10-CM |
| S00.94XD | External constriction of unspecified part of head, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S00.94XS | External constriction of unspecified part of head, sequela                       | Diagnosis     | ICD-10-CM |
| S00.95   | Superficial foreign body of unspecified part of head                             | Diagnosis     | ICD-10-CM |
| S00.95XA | Superficial foreign body of unspecified part of head, initial encounter          | Diagnosis     | ICD-10-CM |
| S00.95XD | Superficial foreign body of unspecified part of head, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S00.95XS | Superficial foreign body of unspecified part of head, sequela                    | Diagnosis     | ICD-10-CM |
| S00.96   | Insect bite (nonvenomous) of unspecified part of head                            | Diagnosis     | ICD-10-CM |
| S00.96XA | Insect bite (nonvenomous) of unspecified part of head, initial encounter         | Diagnosis     | ICD-10-CM |
| S00.96XD | Insect bite (nonvenomous) of unspecified part of head, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S00.96XS | Insect bite (nonvenomous) of unspecified part of head, sequela                   | Diagnosis     | ICD-10-CM |
| S00.97   | Other superficial bite of unspecified part of head                               | Diagnosis     | ICD-10-CM |
| S00.97XA | Other superficial bite of unspecified part of head, initial encounter            | Diagnosis     | ICD-10-CM |
| S00.97XD | Other superficial bite of unspecified part of head, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S00.97XS | Other superficial bite of unspecified part of head, sequela                      | Diagnosis     | ICD-10-CM |
| S01      | Open wound of head   | Diagnosis     | ICD-10-CM |
| S01.0    | Open wound of scalp  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S01.00   | Unspecified open wound of scalp  | Diagnosis     | ICD-10-CM |
| S01.00XA | Unspecified open wound of scalp, initial encounter   | Diagnosis     | ICD-10-CM |
| S01.00XD | Unspecified open wound of scalp, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S01.00XS | Unspecified open wound of scalp, sequela   | Diagnosis     | ICD-10-CM |
| S01.01   | Laceration without foreign body of scalp   | Diagnosis     | ICD-10-CM |
| S01.01XA | Laceration without foreign body of scalp, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S01.01XD | Laceration without foreign body of scalp, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S01.01XS | Laceration without foreign body of scalp, sequela  | Diagnosis     | ICD-10-CM |
| S01.02   | Laceration with foreign body of scalp  | Diagnosis     | ICD-10-CM |
| S01.02XA | Laceration with foreign body of scalp, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S01.02XD | Laceration with foreign body of scalp, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S01.02XS | Laceration with foreign body of scalp, sequela   | Diagnosis     | ICD-10-CM |
| S01.03   | Puncture wound without foreign body of scalp   | Diagnosis     | ICD-10-CM |
| S01.03XA | Puncture wound without foreign body of scalp, initial encounter                              | Diagnosis     | ICD-10-CM |
| S01.03XD | Puncture wound without foreign body of scalp, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S01.03XS | Puncture wound without foreign body of scalp, sequela  | Diagnosis     | ICD-10-CM |
| S01.04   | Puncture wound with foreign body of scalp  | Diagnosis     | ICD-10-CM |
| S01.04XA | Puncture wound with foreign body of scalp, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S01.04XD | Puncture wound with foreign body of scalp, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S01.04XS | Puncture wound with foreign body of scalp, sequela   | Diagnosis     | ICD-10-CM |
| S01.05   | Open bite of scalp   | Diagnosis     | ICD-10-CM |
| S01.05XA | Open bite of scalp, initial encounter  | Diagnosis     | ICD-10-CM |
| S01.05XD | Open bite of scalp, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S01.05XS | Open bite of scalp, sequela  | Diagnosis     | ICD-10-CM |
| S01.1    | Open wound of eyelid and periocular area   | Diagnosis     | ICD-10-CM |
| S01.10   | Unspecified open wound of eyelid and periocular area   | Diagnosis     | ICD-10-CM |
| S01.101  | Unspecified open wound of right eyelid and periocular area                                   | Diagnosis     | ICD-10-CM |
| S01.101A | Unspecified open wound of right eyelid and periocular area, initial encounter                | Diagnosis     | ICD-10-CM |
| S01.101D | Unspecified open wound of right eyelid and periocular area, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S01.101S | Unspecified open wound of right eyelid and periocular area, sequela                          | Diagnosis     | ICD-10-CM |
| S01.102  | Unspecified open wound of left eyelid and periocular area                                    | Diagnosis     | ICD-10-CM |
| S01.102A | Unspecified open wound of left eyelid and periocular area, initial encounter                 | Diagnosis     | ICD-10-CM |
| S01.102D | Unspecified open wound of left eyelid and periocular area, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S01.102S | Unspecified open wound of left eyelid and periocular area, sequela                           | Diagnosis     | ICD-10-CM |
| S01.109  | Unspecified open wound of unspecified eyelid and periocular area                             | Diagnosis     | ICD-10-CM |
| S01.109A | Unspecified open wound of unspecified eyelid and periocular area, initial encounter          | Diagnosis     | ICD-10-CM |
| S01.109D | Unspecified open wound of unspecified eyelid and periocular area, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S01.109S | Unspecified open wound of unspecified eyelid and periocular area, sequela                    | Diagnosis     | ICD-10-CM |
| S01.11   | Laceration without foreign body of eyelid and periocular area                                | Diagnosis     | ICD-10-CM |
| S01.111  | Laceration without foreign body of right eyelid and periocular area                          | Diagnosis     | ICD-10-CM |
| S01.111A | Laceration without foreign body of right eyelid and periocular area, initial encounter       | Diagnosis     | ICD-10-CM |
| S01.111D | Laceration without foreign body of right eyelid and periocular area, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S01.111S | Laceration without foreign body of right eyelid and periocular area, sequela                 | Diagnosis     | ICD-10-CM |
| S01.112  | Laceration without foreign body of left eyelid and periocular area                           | Diagnosis     | ICD-10-CM |
| S01.112A | Laceration without foreign body of left eyelid and periocular area, initial encounter        | Diagnosis     | ICD-10-CM |
| S01.112D | Laceration without foreign body of left eyelid and periocular area, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S01.112S | Laceration without foreign body of left eyelid and periocular area, sequela                  | Diagnosis     | ICD-10-CM |
| S01.119  | Laceration without foreign body of unspecified eyelid and periocular area                    | Diagnosis     | ICD-10-CM |
| S01.119A | Laceration without foreign body of unspecified eyelid and periocular area, initial encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S01.119D | Laceration without foreign body of unspecified eyelid and periocular area, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S01.119S | Laceration without foreign body of unspecified eyelid and periocular area, sequela                  | Diagnosis     | ICD-10-CM |
| S01.12   | Laceration with foreign body of eyelid and periocular area  | Diagnosis     | ICD-10-CM |
| S01.121  | Laceration with foreign body of right eyelid and periocular area                                    | Diagnosis     | ICD-10-CM |
| S01.121A | Laceration with foreign body of right eyelid and periocular area, initial encounter                 | Diagnosis     | ICD-10-CM |
| S01.121D | Laceration with foreign body of right eyelid and periocular area, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S01.121S | Laceration with foreign body of right eyelid and periocular area, sequela                           | Diagnosis     | ICD-10-CM |
| S01.122  | Laceration with foreign body of left eyelid and periocular area                                     | Diagnosis     | ICD-10-CM |
| S01.122A | Laceration with foreign body of left eyelid and periocular area, initial encounter                  | Diagnosis     | ICD-10-CM |
| S01.122D | Laceration with foreign body of left eyelid and periocular area, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S01.122S | Laceration with foreign body of left eyelid and periocular area, sequela                            | Diagnosis     | ICD-10-CM |
| S01.129  | Laceration with foreign body of unspecified eyelid and periocular area                              | Diagnosis     | ICD-10-CM |
| S01.129A | Laceration with foreign body of unspecified eyelid and periocular area, initial encounter           | Diagnosis     | ICD-10-CM |
| S01.129D | Laceration with foreign body of unspecified eyelid and periocular area, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S01.129S | Laceration with foreign body of unspecified eyelid and periocular area, sequela                     | Diagnosis     | ICD-10-CM |
| S01.13   | Puncture wound without foreign body of eyelid and periocular area                                   | Diagnosis     | ICD-10-CM |
| S01.131  | Puncture wound without foreign body of right eyelid and periocular area                             | Diagnosis     | ICD-10-CM |
| S01.131A | Puncture wound without foreign body of right eyelid and periocular area, initial encounter          | Diagnosis     | ICD-10-CM |
| S01.131D | Puncture wound without foreign body of right eyelid and periocular area, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S01.131S | Puncture wound without foreign body of right eyelid and periocular area, sequela                    | Diagnosis     | ICD-10-CM |
| S01.132  | Puncture wound without foreign body of left eyelid and periocular area                              | Diagnosis     | ICD-10-CM |
| S01.132A | Puncture wound without foreign body of left eyelid and periocular area, initial encounter           | Diagnosis     | ICD-10-CM |
| S01.132D | Puncture wound without foreign body of left eyelid and periocular area, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S01.132S | Puncture wound without foreign body of left eyelid and periocular area, sequela                     | Diagnosis     | ICD-10-CM |
| S01.139  | Puncture wound without foreign body of unspecified eyelid and periocular area                       | Diagnosis     | ICD-10-CM |
| S01.139A | Puncture wound without foreign body of unspecified eyelid and periocular area, initial encounter    | Diagnosis     | ICD-10-CM |
| S01.139D | Puncture wound without foreign body of unspecified eyelid and periocular area, subsequent encounter | Diagnosis     | ICD-10-CM |
| S01.139S | Puncture wound without foreign body of unspecified eyelid and periocular area, sequela              | Diagnosis     | ICD-10-CM |
| S01.14   | Puncture wound with foreign body of eyelid and periocular area                                      | Diagnosis     | ICD-10-CM |
| S01.141  | Puncture wound with foreign body of right eyelid and periocular area                                | Diagnosis     | ICD-10-CM |
| S01.141A | Puncture wound with foreign body of right eyelid and periocular area, initial encounter             | Diagnosis     | ICD-10-CM |
| S01.141D | Puncture wound with foreign body of right eyelid and periocular area, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S01.141S | Puncture wound with foreign body of right eyelid and periocular area, sequela                       | Diagnosis     | ICD-10-CM |
| S01.142  | Puncture wound with foreign body of left eyelid and periocular area                                 | Diagnosis     | ICD-10-CM |
| S01.142A | Puncture wound with foreign body of left eyelid and periocular area, initial encounter              | Diagnosis     | ICD-10-CM |
| S01.142D | Puncture wound with foreign body of left eyelid and periocular area, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S01.142S | Puncture wound with foreign body of left eyelid and periocular area, sequela                        | Diagnosis     | ICD-10-CM |
| S01.149  | Puncture wound with foreign body of unspecified eyelid and periocular area                          | Diagnosis     | ICD-10-CM |
| S01.149A | Puncture wound with foreign body of unspecified eyelid and periocular area, initial encounter       | Diagnosis     | ICD-10-CM |
| S01.149D | Puncture wound with foreign body of unspecified eyelid and periocular area, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S01.149S | Puncture wound with foreign body of unspecified eyelid and periocular area, sequela                 | Diagnosis     | ICD-10-CM |
| S01.15   | Open bite of eyelid and periocular area   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S01.151  | Open bite of right eyelid and periocular area                             | Diagnosis     | ICD-10-CM |
| S01.151A | Open bite of right eyelid and periocular area, initial encounter          | Diagnosis     | ICD-10-CM |
| S01.151D | Open bite of right eyelid and periocular area, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S01.151S | Open bite of right eyelid and periocular area, sequela                    | Diagnosis     | ICD-10-CM |
| S01.152  | Open bite of left eyelid and periocular area                              | Diagnosis     | ICD-10-CM |
| S01.152A | Open bite of left eyelid and periocular area, initial encounter           | Diagnosis     | ICD-10-CM |
| S01.152D | Open bite of left eyelid and periocular area, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S01.152S | Open bite of left eyelid and periocular area, sequela                     | Diagnosis     | ICD-10-CM |
| S01.159  | Open bite of unspecified eyelid and periocular area                       | Diagnosis     | ICD-10-CM |
| S01.159A | Open bite of unspecified eyelid and periocular area, initial encounter    | Diagnosis     | ICD-10-CM |
| S01.159D | Open bite of unspecified eyelid and periocular area, subsequent encounter | Diagnosis     | ICD-10-CM |
| S01.159S | Open bite of unspecified eyelid and periocular area, sequela              | Diagnosis     | ICD-10-CM |
| S01.2    | Open wound of nose  | Diagnosis     | ICD-10-CM |
| S01.20   | Unspecified open wound of nose  | Diagnosis     | ICD-10-CM |
| S01.20XA | Unspecified open wound of nose, initial encounter                         | Diagnosis     | ICD-10-CM |
| S01.20XD | Unspecified open wound of nose, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S01.20XS | Unspecified open wound of nose, sequela                                   | Diagnosis     | ICD-10-CM |
| S01.21   | Laceration without foreign body of nose                                   | Diagnosis     | ICD-10-CM |
| S01.21XA | Laceration without foreign body of nose, initial encounter                | Diagnosis     | ICD-10-CM |
| S01.21XD | Laceration without foreign body of nose, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S01.21XS | Laceration without foreign body of nose, sequela                          | Diagnosis     | ICD-10-CM |
| S01.22   | Laceration with foreign body of nose                                      | Diagnosis     | ICD-10-CM |
| S01.22XA | Laceration with foreign body of nose, initial encounter                   | Diagnosis     | ICD-10-CM |
| S01.22XD | Laceration with foreign body of nose, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S01.22XS | Laceration with foreign body of nose, sequela                             | Diagnosis     | ICD-10-CM |
| S01.23   | Puncture wound without foreign body of nose                               | Diagnosis     | ICD-10-CM |
| S01.23XA | Puncture wound without foreign body of nose, initial encounter            | Diagnosis     | ICD-10-CM |
| S01.23XD | Puncture wound without foreign body of nose, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S01.23XS | Puncture wound without foreign body of nose, sequela                      | Diagnosis     | ICD-10-CM |
| S01.24   | Puncture wound with foreign body of nose                                  | Diagnosis     | ICD-10-CM |
| S01.24XA | Puncture wound with foreign body of nose, initial encounter               | Diagnosis     | ICD-10-CM |
| S01.24XD | Puncture wound with foreign body of nose, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S01.24XS | Puncture wound with foreign body of nose, sequela                         | Diagnosis     | ICD-10-CM |
| S01.25   | Open bite of nose   | Diagnosis     | ICD-10-CM |
| S01.25XA | Open bite of nose, initial encounter                                      | Diagnosis     | ICD-10-CM |
| S01.25XD | Open bite of nose, subsequent encounter                                   | Diagnosis     | ICD-10-CM |
| S01.25XS | Open bite of nose, sequela  | Diagnosis     | ICD-10-CM |
| S01.3    | Open wound of ear   | Diagnosis     | ICD-10-CM |
| S01.30   | Unspecified open wound of ear   | Diagnosis     | ICD-10-CM |
| S01.301  | Unspecified open wound of right ear                                       | Diagnosis     | ICD-10-CM |
| S01.301A | Unspecified open wound of right ear, initial encounter                    | Diagnosis     | ICD-10-CM |
| S01.301D | Unspecified open wound of right ear, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S01.301S | Unspecified open wound of right ear, sequela                              | Diagnosis     | ICD-10-CM |
| S01.302  | Unspecified open wound of left ear  | Diagnosis     | ICD-10-CM |
| S01.302A | Unspecified open wound of left ear, initial encounter                     | Diagnosis     | ICD-10-CM |
| S01.302D | Unspecified open wound of left ear, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S01.302S | Unspecified open wound of left ear, sequela                               | Diagnosis     | ICD-10-CM |
| S01.309  | Unspecified open wound of unspecified ear                                 | Diagnosis     | ICD-10-CM |
| S01.309A | Unspecified open wound of unspecified ear, initial encounter              | Diagnosis     | ICD-10-CM |
| S01.309D | Unspecified open wound of unspecified ear, subsequent encounter           | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S01.309S | Unspecified open wound of unspecified ear, sequela                           | Diagnosis     | ICD-10-CM |
| S01.31   | Laceration without foreign body of ear                                       | Diagnosis     | ICD-10-CM |
| S01.311  | Laceration without foreign body of right ear                                 | Diagnosis     | ICD-10-CM |
| S01.311A | Laceration without foreign body of right ear, initial encounter              | Diagnosis     | ICD-10-CM |
| S01.311D | Laceration without foreign body of right ear, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S01.311S | Laceration without foreign body of right ear, sequela                        | Diagnosis     | ICD-10-CM |
| S01.312  | Laceration without foreign body of left ear                                  | Diagnosis     | ICD-10-CM |
| S01.312A | Laceration without foreign body of left ear, initial encounter               | Diagnosis     | ICD-10-CM |
| S01.312D | Laceration without foreign body of left ear, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S01.312S | Laceration without foreign body of left ear, sequela                         | Diagnosis     | ICD-10-CM |
| S01.319  | Laceration without foreign body of unspecified ear                           | Diagnosis     | ICD-10-CM |
| S01.319A | Laceration without foreign body of unspecified ear, initial encounter        | Diagnosis     | ICD-10-CM |
| S01.319D | Laceration without foreign body of unspecified ear, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S01.319S | Laceration without foreign body of unspecified ear, sequela                  | Diagnosis     | ICD-10-CM |
| S01.32   | Laceration with foreign body of ear  | Diagnosis     | ICD-10-CM |
| S01.321  | Laceration with foreign body of right ear                                    | Diagnosis     | ICD-10-CM |
| S01.321A | Laceration with foreign body of right ear, initial encounter                 | Diagnosis     | ICD-10-CM |
| S01.321D | Laceration with foreign body of right ear, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S01.321S | Laceration with foreign body of right ear, sequela                           | Diagnosis     | ICD-10-CM |
| S01.322  | Laceration with foreign body of left ear                                     | Diagnosis     | ICD-10-CM |
| S01.322A | Laceration with foreign body of left ear, initial encounter                  | Diagnosis     | ICD-10-CM |
| S01.322D | Laceration with foreign body of left ear, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S01.322S | Laceration with foreign body of left ear, sequela                            | Diagnosis     | ICD-10-CM |
| S01.329  | Laceration with foreign body of unspecified ear                              | Diagnosis     | ICD-10-CM |
| S01.329A | Laceration with foreign body of unspecified ear, initial encounter           | Diagnosis     | ICD-10-CM |
| S01.329D | Laceration with foreign body of unspecified ear, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S01.329S | Laceration with foreign body of unspecified ear, sequela                     | Diagnosis     | ICD-10-CM |
| S01.33   | Puncture wound without foreign body of ear                                   | Diagnosis     | ICD-10-CM |
| S01.331  | Puncture wound without foreign body of right ear                             | Diagnosis     | ICD-10-CM |
| S01.331A | Puncture wound without foreign body of right ear, initial encounter          | Diagnosis     | ICD-10-CM |
| S01.331D | Puncture wound without foreign body of right ear, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S01.331S | Puncture wound without foreign body of right ear, sequela                    | Diagnosis     | ICD-10-CM |
| S01.332  | Puncture wound without foreign body of left ear                              | Diagnosis     | ICD-10-CM |
| S01.332A | Puncture wound without foreign body of left ear, initial encounter           | Diagnosis     | ICD-10-CM |
| S01.332D | Puncture wound without foreign body of left ear, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S01.332S | Puncture wound without foreign body of left ear, sequela                     | Diagnosis     | ICD-10-CM |
| S01.339  | Puncture wound without foreign body of unspecified ear                       | Diagnosis     | ICD-10-CM |
| S01.339A | Puncture wound without foreign body of unspecified ear, initial encounter    | Diagnosis     | ICD-10-CM |
| S01.339D | Puncture wound without foreign body of unspecified ear, subsequent encounter | Diagnosis     | ICD-10-CM |
| S01.339S | Puncture wound without foreign body of unspecified ear, sequela              | Diagnosis     | ICD-10-CM |
| S01.34   | Puncture wound with foreign body of ear                                      | Diagnosis     | ICD-10-CM |
| S01.341  | Puncture wound with foreign body of right ear                                | Diagnosis     | ICD-10-CM |
| S01.341A | Puncture wound with foreign body of right ear, initial encounter             | Diagnosis     | ICD-10-CM |
| S01.341D | Puncture wound with foreign body of right ear, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S01.341S | Puncture wound with foreign body of right ear, sequela                       | Diagnosis     | ICD-10-CM |
| S01.342  | Puncture wound with foreign body of left ear                                 | Diagnosis     | ICD-10-CM |
| S01.342A | Puncture wound with foreign body of left ear, initial encounter              | Diagnosis     | ICD-10-CM |
| S01.342D | Puncture wound with foreign body of left ear, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S01.342S | Puncture wound with foreign body of left ear, sequela                        | Diagnosis     | ICD-10-CM |
| S01.349  | Puncture wound with foreign body of unspecified ear                          | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S01.349A | Puncture wound with foreign body of unspecified ear, initial encounter                                | Diagnosis     | ICD-10-CM |
| S01.349D | Puncture wound with foreign body of unspecified ear, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S01.349S | Puncture wound with foreign body of unspecified ear, sequela  | Diagnosis     | ICD-10-CM |
| S01.35   | Open bite of ear  | Diagnosis     | ICD-10-CM |
| S01.351  | Open bite of right ear  | Diagnosis     | ICD-10-CM |
| S01.351A | Open bite of right ear, initial encounter   | Diagnosis     | ICD-10-CM |
| S01.351D | Open bite of right ear, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S01.351S | Open bite of right ear, sequela   | Diagnosis     | ICD-10-CM |
| S01.352  | Open bite of left ear   | Diagnosis     | ICD-10-CM |
| S01.352A | Open bite of left ear, initial encounter  | Diagnosis     | ICD-10-CM |
| S01.352D | Open bite of left ear, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S01.352S | Open bite of left ear, sequela  | Diagnosis     | ICD-10-CM |
| S01.359  | Open bite of unspecified ear  | Diagnosis     | ICD-10-CM |
| S01.359A | Open bite of unspecified ear, initial encounter   | Diagnosis     | ICD-10-CM |
| S01.359D | Open bite of unspecified ear, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S01.359S | Open bite of unspecified ear, sequela   | Diagnosis     | ICD-10-CM |
| S01.4    | Open wound of cheek and temporomandibular area  | Diagnosis     | ICD-10-CM |
| S01.40   | Unspecified open wound of cheek and temporomandibular area  | Diagnosis     | ICD-10-CM |
| S01.401  | Unspecified open wound of right cheek and temporomandibular area                                      | Diagnosis     | ICD-10-CM |
| S01.401A | Unspecified open wound of right cheek and temporomandibular area, initial encounter                   | Diagnosis     | ICD-10-CM |
| S01.401D | Unspecified open wound of right cheek and temporomandibular area, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S01.401S | Unspecified open wound of right cheek and temporomandibular area, sequela                             | Diagnosis     | ICD-10-CM |
| S01.402  | Unspecified open wound of left cheek and temporomandibular area                                       | Diagnosis     | ICD-10-CM |
| S01.402A | Unspecified open wound of left cheek and temporomandibular area, initial encounter                    | Diagnosis     | ICD-10-CM |
| S01.402D | Unspecified open wound of left cheek and temporomandibular area, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S01.402S | Unspecified open wound of left cheek and temporomandibular area, sequela                              | Diagnosis     | ICD-10-CM |
| S01.409  | Unspecified open wound of unspecified cheek and temporomandibular area                                | Diagnosis     | ICD-10-CM |
| S01.409A | Unspecified open wound of unspecified cheek and temporomandibular area, initial encounter             | Diagnosis     | ICD-10-CM |
| S01.409D | Unspecified open wound of unspecified cheek and temporomandibular area, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S01.409S | Unspecified open wound of unspecified cheek and temporomandibular area, sequela                       | Diagnosis     | ICD-10-CM |
| S01.41   | Laceration without foreign body of cheek and temporomandibular area                                   | Diagnosis     | ICD-10-CM |
| S01.411  | Laceration without foreign body of right cheek and temporomandibular area                             | Diagnosis     | ICD-10-CM |
| S01.411A | Laceration without foreign body of right cheek and temporomandibular area, initial encounter          | Diagnosis     | ICD-10-CM |
| S01.411D | Laceration without foreign body of right cheek and temporomandibular area, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S01.411S | Laceration without foreign body of right cheek and temporomandibular area, sequela                    | Diagnosis     | ICD-10-CM |
| S01.412  | Laceration without foreign body of left cheek and temporomandibular area                              | Diagnosis     | ICD-10-CM |
| S01.412A | Laceration without foreign body of left cheek and temporomandibular area, initial encounter           | Diagnosis     | ICD-10-CM |
| S01.412D | Laceration without foreign body of left cheek and temporomandibular area, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S01.412S | Laceration without foreign body of left cheek and temporomandibular area, sequela                     | Diagnosis     | ICD-10-CM |
| S01.419  | Laceration without foreign body of unspecified cheek and temporomandibular area                       | Diagnosis     | ICD-10-CM |
| S01.419A | Laceration without foreign body of unspecified cheek and temporomandibular area, initial encounter    | Diagnosis     | ICD-10-CM |
| S01.419D | Laceration without foreign body of unspecified cheek and temporomandibular area, subsequent encounter | Diagnosis     | ICD-10-CM |
| S01.419S | Laceration without foreign body of unspecified cheek and temporomandibular area, sequela              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S01.42   | Laceration with foreign body of cheek and temporomandibular area  | Diagnosis     | ICD-10-CM |
| S01.421  | Laceration with foreign body of right cheek and temporomandibular area                                    | Diagnosis     | ICD-10-CM |
| S01.421A | Laceration with foreign body of right cheek and temporomandibular area, initial encounter                 | Diagnosis     | ICD-10-CM |
| S01.421D | Laceration with foreign body of right cheek and temporomandibular area, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S01.421S | Laceration with foreign body of right cheek and temporomandibular area, sequela                           | Diagnosis     | ICD-10-CM |
| S01.422  | Laceration with foreign body of left cheek and temporomandibular area                                     | Diagnosis     | ICD-10-CM |
| S01.422A | Laceration with foreign body of left cheek and temporomandibular area, initial encounter                  | Diagnosis     | ICD-10-CM |
| S01.422D | Laceration with foreign body of left cheek and temporomandibular area, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S01.422S | Laceration with foreign body of left cheek and temporomandibular area, sequela                            | Diagnosis     | ICD-10-CM |
| S01.429  | Laceration with foreign body of unspecified cheek and temporomandibular area                              | Diagnosis     | ICD-10-CM |
| S01.429A | Laceration with foreign body of unspecified cheek and temporomandibular area, initial encounter           | Diagnosis     | ICD-10-CM |
| S01.429D | Laceration with foreign body of unspecified cheek and temporomandibular area, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S01.429S | Laceration with foreign body of unspecified cheek and temporomandibular area, sequela                     | Diagnosis     | ICD-10-CM |
| S01.43   | Puncture wound without foreign body of cheek and temporomandibular area                                   | Diagnosis     | ICD-10-CM |
| S01.431  | Puncture wound without foreign body of right cheek and temporomandibular area                             | Diagnosis     | ICD-10-CM |
| S01.431A | Puncture wound without foreign body of right cheek and temporomandibular area, initial encounter          | Diagnosis     | ICD-10-CM |
| S01.431D | Puncture wound without foreign body of right cheek and temporomandibular area, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S01.431S | Puncture wound without foreign body of right cheek and temporomandibular area, sequela                    | Diagnosis     | ICD-10-CM |
| S01.432  | Puncture wound without foreign body of left cheek and temporomandibular area                              | Diagnosis     | ICD-10-CM |
| S01.432A | Puncture wound without foreign body of left cheek and temporomandibular area, initial encounter           | Diagnosis     | ICD-10-CM |
| S01.432D | Puncture wound without foreign body of left cheek and temporomandibular area, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S01.432S | Puncture wound without foreign body of left cheek and temporomandibular area, sequela                     | Diagnosis     | ICD-10-CM |
| S01.439  | Puncture wound without foreign body of unspecified cheek and temporomandibular area                       | Diagnosis     | ICD-10-CM |
| S01.439A | Puncture wound without foreign body of unspecified cheek and temporomandibular area, initial encounter    | Diagnosis     | ICD-10-CM |
| S01.439D | Puncture wound without foreign body of unspecified cheek and temporomandibular area, subsequent encounter | Diagnosis     | ICD-10-CM |
| S01.439S | Puncture wound without foreign body of unspecified cheek and temporomandibular area, sequela              | Diagnosis     | ICD-10-CM |
| S01.44   | Puncture wound with foreign body of cheek and temporomandibular area                                      | Diagnosis     | ICD-10-CM |
| S01.441  | Puncture wound with foreign body of right cheek and temporomandibular area                                | Diagnosis     | ICD-10-CM |
| S01.441A | Puncture wound with foreign body of right cheek and temporomandibular area, initial encounter             | Diagnosis     | ICD-10-CM |
| S01.441D | Puncture wound with foreign body of right cheek and temporomandibular area, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S01.441S | Puncture wound with foreign body of right cheek and temporomandibular area, sequela                       | Diagnosis     | ICD-10-CM |
| S01.442  | Puncture wound with foreign body of left cheek and temporomandibular area                                 | Diagnosis     | ICD-10-CM |
| S01.442A | Puncture wound with foreign body of left cheek and temporomandibular area, initial encounter              | Diagnosis     | ICD-10-CM |
| S01.442D | Puncture wound with foreign body of left cheek and temporomandibular area, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S01.442S | Puncture wound with foreign body of left cheek and temporomandibular area, sequela                        | Diagnosis     | ICD-10-CM |

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| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S01.449  | Puncture wound with foreign body of unspecified cheek and temporomandibular area                       | Diagnosis     | ICD-10-CM |
| S01.449A | Puncture wound with foreign body of unspecified cheek and temporomandibular area, initial encounter    | Diagnosis     | ICD-10-CM |
| S01.449D | Puncture wound with foreign body of unspecified cheek and temporomandibular area, subsequent encounter | Diagnosis     | ICD-10-CM |
| S01.449S | Puncture wound with foreign body of unspecified cheek and temporomandibular area, sequela              | Diagnosis     | ICD-10-CM |
| S01.45   | Open bite of cheek and temporomandibular area  | Diagnosis     | ICD-10-CM |
| S01.451  | Open bite of right cheek and temporomandibular area  | Diagnosis     | ICD-10-CM |
| S01.451A | Open bite of right cheek and temporomandibular area, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S01.451D | Open bite of right cheek and temporomandibular area, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S01.451S | Open bite of right cheek and temporomandibular area, sequela   | Diagnosis     | ICD-10-CM |
| S01.452  | Open bite of left cheek and temporomandibular area   | Diagnosis     | ICD-10-CM |
| S01.452A | Open bite of left cheek and temporomandibular area, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S01.452D | Open bite of left cheek and temporomandibular area, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S01.452S | Open bite of left cheek and temporomandibular area, sequela  | Diagnosis     | ICD-10-CM |
| S01.459  | Open bite of unspecified cheek and temporomandibular area  | Diagnosis     | ICD-10-CM |
| S01.459A | Open bite of unspecified cheek and temporomandibular area, initial encounter                           | Diagnosis     | ICD-10-CM |
| S01.459D | Open bite of unspecified cheek and temporomandibular area, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S01.459S | Open bite of unspecified cheek and temporomandibular area, sequela                                     | Diagnosis     | ICD-10-CM |
| S01.5    | Open wound of lip and oral cavity  | Diagnosis     | ICD-10-CM |
| S01.50   | Unspecified open wound of lip and oral cavity  | Diagnosis     | ICD-10-CM |
| S01.501  | Unspecified open wound of lip  | Diagnosis     | ICD-10-CM |
| S01.501A | Unspecified open wound of lip, initial encounter   | Diagnosis     | ICD-10-CM |
| S01.501D | Unspecified open wound of lip, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S01.501S | Unspecified open wound of lip, sequela   | Diagnosis     | ICD-10-CM |
| S01.502  | Unspecified open wound of oral cavity  | Diagnosis     | ICD-10-CM |
| S01.502A | Unspecified open wound of oral cavity, initial encounter   | Diagnosis     | ICD-10-CM |
| S01.502D | Unspecified open wound of oral cavity, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S01.502S | Unspecified open wound of oral cavity, sequela   | Diagnosis     | ICD-10-CM |
| S01.51   | Laceration of lip and oral cavity without foreign body   | Diagnosis     | ICD-10-CM |
| S01.511  | Laceration without foreign body of lip   | Diagnosis     | ICD-10-CM |
| S01.511A | Laceration without foreign body of lip, initial encounter  | Diagnosis     | ICD-10-CM |
| S01.511D | Laceration without foreign body of lip, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S01.511S | Laceration without foreign body of lip, sequela  | Diagnosis     | ICD-10-CM |
| S01.512  | Laceration without foreign body of oral cavity   | Diagnosis     | ICD-10-CM |
| S01.512A | Laceration without foreign body of oral cavity, initial encounter                                      | Diagnosis     | ICD-10-CM |
| S01.512D | Laceration without foreign body of oral cavity, subsequent encounter                                   | Diagnosis     | ICD-10-CM |
| S01.512S | Laceration without foreign body of oral cavity, sequela  | Diagnosis     | ICD-10-CM |
| S01.52   | Laceration of lip and oral cavity with foreign body  | Diagnosis     | ICD-10-CM |
| S01.521  | Laceration with foreign body of lip  | Diagnosis     | ICD-10-CM |
| S01.521A | Laceration with foreign body of lip, initial encounter   | Diagnosis     | ICD-10-CM |
| S01.521D | Laceration with foreign body of lip, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S01.521S | Laceration with foreign body of lip, sequela   | Diagnosis     | ICD-10-CM |
| S01.522  | Laceration with foreign body of oral cavity  | Diagnosis     | ICD-10-CM |
| S01.522A | Laceration with foreign body of oral cavity, initial encounter   | Diagnosis     | ICD-10-CM |
| S01.522D | Laceration with foreign body of oral cavity, subsequent encounter                                      | Diagnosis     | ICD-10-CM |
| S01.522S | Laceration with foreign body of oral cavity, sequela   | Diagnosis     | ICD-10-CM |
| S01.53   | Puncture wound of lip and oral cavity without foreign body   | Diagnosis     | ICD-10-CM |
| S01.531  | Puncture wound without foreign body of lip   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S01.531A | Puncture wound without foreign body of lip, initial encounter                   | Diagnosis     | ICD-10-CM |
| S01.531D | Puncture wound without foreign body of lip, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S01.531S | Puncture wound without foreign body of lip, sequela                             | Diagnosis     | ICD-10-CM |
| S01.532  | Puncture wound without foreign body of oral cavity                              | Diagnosis     | ICD-10-CM |
| S01.532A | Puncture wound without foreign body of oral cavity, initial encounter           | Diagnosis     | ICD-10-CM |
| S01.532D | Puncture wound without foreign body of oral cavity, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S01.532S | Puncture wound without foreign body of oral cavity, sequela                     | Diagnosis     | ICD-10-CM |
| S01.54   | Puncture wound of lip and oral cavity with foreign body                         | Diagnosis     | ICD-10-CM |
| S01.541  | Puncture wound with foreign body of lip   | Diagnosis     | ICD-10-CM |
| S01.541A | Puncture wound with foreign body of lip, initial encounter                      | Diagnosis     | ICD-10-CM |
| S01.541D | Puncture wound with foreign body of lip, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S01.541S | Puncture wound with foreign body of lip, sequela                                | Diagnosis     | ICD-10-CM |
| S01.542  | Puncture wound with foreign body of oral cavity                                 | Diagnosis     | ICD-10-CM |
| S01.542A | Puncture wound with foreign body of oral cavity, initial encounter              | Diagnosis     | ICD-10-CM |
| S01.542D | Puncture wound with foreign body of oral cavity, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S01.542S | Puncture wound with foreign body of oral cavity, sequela                        | Diagnosis     | ICD-10-CM |
| S01.55   | Open bite of lip and oral cavity  | Diagnosis     | ICD-10-CM |
| S01.551  | Open bite of lip  | Diagnosis     | ICD-10-CM |
| S01.551A | Open bite of lip, initial encounter   | Diagnosis     | ICD-10-CM |
| S01.551D | Open bite of lip, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S01.551S | Open bite of lip, sequela   | Diagnosis     | ICD-10-CM |
| S01.552  | Open bite of oral cavity  | Diagnosis     | ICD-10-CM |
| S01.552A | Open bite of oral cavity, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S01.552D | Open bite of oral cavity, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S01.552S | Open bite of oral cavity, sequela   | Diagnosis     | ICD-10-CM |
| S01.8    | Open wound of other parts of head   | Diagnosis     | ICD-10-CM |
| S01.80   | Unspecified open wound of other part of head                                    | Diagnosis     | ICD-10-CM |
| S01.80XA | Unspecified open wound of other part of head, initial encounter                 | Diagnosis     | ICD-10-CM |
| S01.80XD | Unspecified open wound of other part of head, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S01.80XS | Unspecified open wound of other part of head, sequela                           | Diagnosis     | ICD-10-CM |
| S01.81   | Laceration without foreign body of other part of head                           | Diagnosis     | ICD-10-CM |
| S01.81XA | Laceration without foreign body of other part of head, initial encounter        | Diagnosis     | ICD-10-CM |
| S01.81XD | Laceration without foreign body of other part of head, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S01.81XS | Laceration without foreign body of other part of head, sequela                  | Diagnosis     | ICD-10-CM |
| S01.82   | Laceration with foreign body of other part of head                              | Diagnosis     | ICD-10-CM |
| S01.82XA | Laceration with foreign body of other part of head, initial encounter           | Diagnosis     | ICD-10-CM |
| S01.82XD | Laceration with foreign body of other part of head, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S01.82XS | Laceration with foreign body of other part of head, sequela                     | Diagnosis     | ICD-10-CM |
| S01.83   | Puncture wound without foreign body of other part of head                       | Diagnosis     | ICD-10-CM |
| S01.83XA | Puncture wound without foreign body of other part of head, initial encounter    | Diagnosis     | ICD-10-CM |
| S01.83XD | Puncture wound without foreign body of other part of head, subsequent encounter | Diagnosis     | ICD-10-CM |
| S01.83XS | Puncture wound without foreign body of other part of head, sequela              | Diagnosis     | ICD-10-CM |
| S01.84   | Puncture wound with foreign body of other part of head                          | Diagnosis     | ICD-10-CM |
| S01.84XA | Puncture wound with foreign body of other part of head, initial encounter       | Diagnosis     | ICD-10-CM |
| S01.84XD | Puncture wound with foreign body of other part of head, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S01.84XS | Puncture wound with foreign body of other part of head, sequela                 | Diagnosis     | ICD-10-CM |
| S01.85   | Open bite of other part of head   | Diagnosis     | ICD-10-CM |
| S01.85XA | Open bite of other part of head, initial encounter                              | Diagnosis     | ICD-10-CM |
| S01.85XD | Open bite of other part of head, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S01.85XS | Open bite of other part of head, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S01.9    | Open wound of unspecified part of head  | Diagnosis     | ICD-10-CM |
| S01.90   | Unspecified open wound of unspecified part of head  | Diagnosis     | ICD-10-CM |
| S01.90XA | Unspecified open wound of unspecified part of head, initial encounter                         | Diagnosis     | ICD-10-CM |
| S01.90XD | Unspecified open wound of unspecified part of head, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S01.90XS | Unspecified open wound of unspecified part of head, sequela                                   | Diagnosis     | ICD-10-CM |
| S01.91   | Laceration without foreign body of unspecified part of head                                   | Diagnosis     | ICD-10-CM |
| S01.91XA | Laceration without foreign body of unspecified part of head, initial encounter                | Diagnosis     | ICD-10-CM |
| S01.91XD | Laceration without foreign body of unspecified part of head, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S01.91XS | Laceration without foreign body of unspecified part of head, sequela                          | Diagnosis     | ICD-10-CM |
| S01.92   | Laceration with foreign body of unspecified part of head                                      | Diagnosis     | ICD-10-CM |
| S01.92XA | Laceration with foreign body of unspecified part of head, initial encounter                   | Diagnosis     | ICD-10-CM |
| S01.92XD | Laceration with foreign body of unspecified part of head, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S01.92XS | Laceration with foreign body of unspecified part of head, sequela                             | Diagnosis     | ICD-10-CM |
| S01.93   | Puncture wound without foreign body of unspecified part of head                               | Diagnosis     | ICD-10-CM |
| S01.93XA | Puncture wound without foreign body of unspecified part of head, initial encounter            | Diagnosis     | ICD-10-CM |
| S01.93XD | Puncture wound without foreign body of unspecified part of head, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S01.93XS | Puncture wound without foreign body of unspecified part of head, sequela                      | Diagnosis     | ICD-10-CM |
| S01.94   | Puncture wound with foreign body of unspecified part of head                                  | Diagnosis     | ICD-10-CM |
| S01.94XA | Puncture wound with foreign body of unspecified part of head, initial encounter               | Diagnosis     | ICD-10-CM |
| S01.94XD | Puncture wound with foreign body of unspecified part of head, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S01.94XS | Puncture wound with foreign body of unspecified part of head, sequela                         | Diagnosis     | ICD-10-CM |
| S01.95   | Open bite of unspecified part of head   | Diagnosis     | ICD-10-CM |
| S01.95XA | Open bite of unspecified part of head, initial encounter                                      | Diagnosis     | ICD-10-CM |
| S01.95XD | Open bite of unspecified part of head, subsequent encounter                                   | Diagnosis     | ICD-10-CM |
| S01.95XS | Open bite of unspecified part of head, sequela  | Diagnosis     | ICD-10-CM |
| S02      | Fracture of skull and facial bones  | Diagnosis     | ICD-10-CM |
| S02.0    | Fracture of vault of skull  | Diagnosis     | ICD-10-CM |
| S02.0XXA | Fracture of vault of skull, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S02.0XXB | Fracture of vault of skull, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S02.0XXD | Fracture of vault of skull, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S02.0XXG | Fracture of vault of skull, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S02.0XXK | Fracture of vault of skull, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S02.0XXS | Fracture of vault of skull, sequela   | Diagnosis     | ICD-10-CM |
| S02.1    | Fracture of base of skull   | Diagnosis     | ICD-10-CM |
| S02.10   | Unspecified fracture of base of skull   | Diagnosis     | ICD-10-CM |
| S02.101  | Fracture of base of skull, right side   | Diagnosis     | ICD-10-CM |
| S02.101A | Fracture of base of skull, right side, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S02.101B | Fracture of base of skull, right side, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S02.101D | Fracture of base of skull, right side, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S02.101G | Fracture of base of skull, right side, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S02.101K | Fracture of base of skull, right side, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S02.101S | Fracture of base of skull, right side, sequela  | Diagnosis     | ICD-10-CM |
| S02.102  | Fracture of base of skull, left side  | Diagnosis     | ICD-10-CM |
| S02.102A | Fracture of base of skull, left side, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S02.102B | Fracture of base of skull, left side, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S02.102D | Fracture of base of skull, left side, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S02.102G | Fracture of base of skull, left side, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S02.102K | Fracture of base of skull, left side, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S02.102S | Fracture of base of skull, left side, sequela   | Diagnosis     | ICD-10-CM |
| S02.109  | Fracture of base of skull, unspecified side   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S02.109A | Fracture of base of skull, unspecified side, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S02.109B | Fracture of base of skull, unspecified side, initial encounter for open fracture                              | Diagnosis     | ICD-10-CM |
| S02.109D | Fracture of base of skull, unspecified side, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S02.109G | Fracture of base of skull, unspecified side, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S02.109K | Fracture of base of skull, unspecified side, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S02.109S | Fracture of base of skull, unspecified side, sequela  | Diagnosis     | ICD-10-CM |
| S02.10XA | Unspecified fracture of base of skull, initial encounter for closed fracture                                  | Diagnosis     | ICD-10-CM |
| S02.10XB | Unspecified fracture of base of skull, initial encounter for open fracture                                    | Diagnosis     | ICD-10-CM |
| S02.10XD | Unspecified fracture of base of skull, subsequent encounter for fracture with routine healing                 | Diagnosis     | ICD-10-CM |
| S02.10XG | Unspecified fracture of base of skull, subsequent encounter for fracture with delayed healing                 | Diagnosis     | ICD-10-CM |
| S02.10XK | Unspecified fracture of base of skull, subsequent encounter for fracture with nonunion                        | Diagnosis     | ICD-10-CM |
| S02.10XS | Unspecified fracture of base of skull, sequela  | Diagnosis     | ICD-10-CM |
| S02.11   | Fracture of occiput   | Diagnosis     | ICD-10-CM |
| S02.110  | Type I occipital condyle fracture, unspecified side   | Diagnosis     | ICD-10-CM |
| S02.110A | Type I occipital condyle fracture, unspecified side, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S02.110B | Type I occipital condyle fracture, unspecified side, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S02.110D | Type I occipital condyle fracture, unspecified side, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S02.110G | Type I occipital condyle fracture, unspecified side, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S02.110K | Type I occipital condyle fracture, unspecified side, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S02.110S | Type I occipital condyle fracture, unspecified side, sequela  | Diagnosis     | ICD-10-CM |
| S02.111  | Type II occipital condyle fracture, unspecified side  | Diagnosis     | ICD-10-CM |
| S02.111A | Type II occipital condyle fracture, unspecified side, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S02.111B | Type II occipital condyle fracture, unspecified side, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S02.111D | Type II occipital condyle fracture, unspecified side, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S02.111G | Type II occipital condyle fracture, unspecified side, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S02.111K | Type II occipital condyle fracture, unspecified side, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S02.111S | Type II occipital condyle fracture, unspecified side, sequela   | Diagnosis     | ICD-10-CM |
| S02.112  | Type III occipital condyle fracture, unspecified side   | Diagnosis     | ICD-10-CM |
| S02.112A | Type III occipital condyle fracture, unspecified side, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S02.112B | Type III occipital condyle fracture, unspecified side, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S02.112D | Type III occipital condyle fracture, unspecified side, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S02.112G | Type III occipital condyle fracture, unspecified side, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S02.112K | Type III occipital condyle fracture, unspecified side, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S02.112S | Type III occipital condyle fracture, unspecified side, sequela  | Diagnosis     | ICD-10-CM |
| S02.113  | Unspecified occipital condyle fracture  | Diagnosis     | ICD-10-CM |
| S02.113A | Unspecified occipital condyle fracture, initial encounter for closed fracture                                 | Diagnosis     | ICD-10-CM |
| S02.113B | Unspecified occipital condyle fracture, initial encounter for open fracture                                   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S02.113D | Unspecified occipital condyle fracture, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S02.113G | Unspecified occipital condyle fracture, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S02.113K | Unspecified occipital condyle fracture, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S02.113S | Unspecified occipital condyle fracture, sequela  | Diagnosis     | ICD-10-CM |
| S02.118  | Other fracture of occiput, unspecified side  | Diagnosis     | ICD-10-CM |
| S02.118A | Other fracture of occiput, unspecified side, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S02.118B | Other fracture of occiput, unspecified side, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S02.118D | Other fracture of occiput, unspecified side, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S02.118G | Other fracture of occiput, unspecified side, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S02.118K | Other fracture of occiput, unspecified side, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S02.118S | Other fracture of occiput, unspecified side, sequela   | Diagnosis     | ICD-10-CM |
| S02.119  | Unspecified fracture of occiput  | Diagnosis     | ICD-10-CM |
| S02.119A | Unspecified fracture of occiput, initial encounter for closed fracture                                 | Diagnosis     | ICD-10-CM |
| S02.119B | Unspecified fracture of occiput, initial encounter for open fracture                                   | Diagnosis     | ICD-10-CM |
| S02.119D | Unspecified fracture of occiput, subsequent encounter for fracture with routine healing                | Diagnosis     | ICD-10-CM |
| S02.119G | Unspecified fracture of occiput, subsequent encounter for fracture with delayed healing                | Diagnosis     | ICD-10-CM |
| S02.119K | Unspecified fracture of occiput, subsequent encounter for fracture with nonunion                       | Diagnosis     | ICD-10-CM |
| S02.119S | Unspecified fracture of occiput, sequela   | Diagnosis     | ICD-10-CM |
| S02.11A  | Type I occipital condyle fracture, right side  | Diagnosis     | ICD-10-CM |
| S02.11AA | Type I occipital condyle fracture, right side, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S02.11AB | Type I occipital condyle fracture, right side, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S02.11AD | Type I occipital condyle fracture, right side, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S02.11AG | Type I occipital condyle fracture, right side, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S02.11AK | Type I occipital condyle fracture, right side, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S02.11AS | Type I occipital condyle fracture, right side, sequela   | Diagnosis     | ICD-10-CM |
| S02.11B  | Type I occipital condyle fracture, left side   | Diagnosis     | ICD-10-CM |
| S02.11BA | Type I occipital condyle fracture, left side, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S02.11BB | Type I occipital condyle fracture, left side, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S02.11BD | Type I occipital condyle fracture, left side, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S02.11BG | Type I occipital condyle fracture, left side, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S02.11BK | Type I occipital condyle fracture, left side, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S02.11BS | Type I occipital condyle fracture, left side, sequela  | Diagnosis     | ICD-10-CM |
| S02.11C  | Type II occipital condyle fracture, right side   | Diagnosis     | ICD-10-CM |
| S02.11CA | Type II occipital condyle fracture, right side, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S02.11CB | Type II occipital condyle fracture, right side, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S02.11CD | Type II occipital condyle fracture, right side, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S02.11CG | Type II occipital condyle fracture, right side, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S02.11CK | Type II occipital condyle fracture, right side, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S02.11CS | Type II occipital condyle fracture, right side, sequela   | Diagnosis     | ICD-10-CM |
| S02.11D  | Type II occipital condyle fracture, left side   | Diagnosis     | ICD-10-CM |
| S02.11DA | Type II occipital condyle fracture, left side, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S02.11DB | Type II occipital condyle fracture, left side, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S02.11DD | Type II occipital condyle fracture, left side, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S02.11DG | Type II occipital condyle fracture, left side, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S02.11DK | Type II occipital condyle fracture, left side, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S02.11DS | Type II occipital condyle fracture, left side, sequela  | Diagnosis     | ICD-10-CM |
| S02.11E  | Type III occipital condyle fracture, right side   | Diagnosis     | ICD-10-CM |
| S02.11EA | Type III occipital condyle fracture, right side, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S02.11EB | Type III occipital condyle fracture, right side, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S02.11ED | Type III occipital condyle fracture, right side, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S02.11EG | Type III occipital condyle fracture, right side, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S02.11EK | Type III occipital condyle fracture, right side, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S02.11ES | Type III occipital condyle fracture, right side, sequela  | Diagnosis     | ICD-10-CM |
| S02.11F  | Type III occipital condyle fracture, left side  | Diagnosis     | ICD-10-CM |
| S02.11FA | Type III occipital condyle fracture, left side, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S02.11FB | Type III occipital condyle fracture, left side, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S02.11FD | Type III occipital condyle fracture, left side, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S02.11FG | Type III occipital condyle fracture, left side, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S02.11FK | Type III occipital condyle fracture, left side, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S02.11FS | Type III occipital condyle fracture, left side, sequela   | Diagnosis     | ICD-10-CM |
| S02.11G  | Other fracture of occiput, right side   | Diagnosis     | ICD-10-CM |
| S02.11GA | Other fracture of occiput, right side, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S02.11GB | Other fracture of occiput, right side, initial encounter for open fracture                              | Diagnosis     | ICD-10-CM |
| S02.11GD | Other fracture of occiput, right side, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S02.11GG | Other fracture of occiput, right side, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S02.11GK | Other fracture of occiput, right side, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S02.11GS | Other fracture of occiput, right side, sequela  | Diagnosis     | ICD-10-CM |
| S02.11H  | Other fracture of occiput, left side  | Diagnosis     | ICD-10-CM |
| S02.11HA | Other fracture of occiput, left side, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S02.11HB | Other fracture of occiput, left side, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S02.11HD | Other fracture of occiput, left side, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S02.11HG | Other fracture of occiput, left side, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S02.11HK | Other fracture of occiput, left side, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S02.11HS | Other fracture of occiput, left side, sequela   | Diagnosis     | ICD-10-CM |
| S02.12   | Fracture of orbital roof  | Diagnosis     | ICD-10-CM |
| S02.121  | Fracture of orbital roof, right side  | Diagnosis     | ICD-10-CM |
| S02.121A | Fracture of orbital roof, right side, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S02.121B | Fracture of orbital roof, right side, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S02.121D | Fracture of orbital roof, right side, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S02.121G | Fracture of orbital roof, right side, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S02.121K | Fracture of orbital roof, right side, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S02.121S | Fracture of orbital roof, right side, sequela   | Diagnosis     | ICD-10-CM |
| S02.122  | Fracture of orbital roof, left side   | Diagnosis     | ICD-10-CM |
| S02.122A | Fracture of orbital roof, left side, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S02.122B | Fracture of orbital roof, left side, initial encounter for open fracture                            | Diagnosis     | ICD-10-CM |
| S02.122D | Fracture of orbital roof, left side, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S02.122G | Fracture of orbital roof, left side, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S02.122K | Fracture of orbital roof, left side, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S02.122S | Fracture of orbital roof, left side, sequela  | Diagnosis     | ICD-10-CM |
| S02.129  | Fracture of orbital roof, unspecified side  | Diagnosis     | ICD-10-CM |
| S02.129A | Fracture of orbital roof, unspecified side, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S02.129B | Fracture of orbital roof, unspecified side, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S02.129D | Fracture of orbital roof, unspecified side, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S02.129G | Fracture of orbital roof, unspecified side, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S02.129K | Fracture of orbital roof, unspecified side, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S02.129S | Fracture of orbital roof, unspecified side, sequela   | Diagnosis     | ICD-10-CM |
| S02.19   | Other fracture of base of skull   | Diagnosis     | ICD-10-CM |
| S02.19XA | Other fracture of base of skull, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S02.19XB | Other fracture of base of skull, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S02.19XD | Other fracture of base of skull, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S02.19XG | Other fracture of base of skull, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S02.19XK | Other fracture of base of skull, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S02.19XS | Other fracture of base of skull, sequela  | Diagnosis     | ICD-10-CM |
| S02.2    | Fracture of nasal bones   | Diagnosis     | ICD-10-CM |
| S02.2XXA | Fracture of nasal bones, initial encounter for closed fracture                                      | Diagnosis     | ICD-10-CM |
| S02.2XXB | Fracture of nasal bones, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S02.2XXD | Fracture of nasal bones, subsequent encounter for fracture with routine healing                     | Diagnosis     | ICD-10-CM |
| S02.2XXG | Fracture of nasal bones, subsequent encounter for fracture with delayed healing                     | Diagnosis     | ICD-10-CM |
| S02.2XXK | Fracture of nasal bones, subsequent encounter for fracture with nonunion                            | Diagnosis     | ICD-10-CM |
| S02.2XXS | Fracture of nasal bones, sequela  | Diagnosis     | ICD-10-CM |
| S02.3    | Fracture of orbital floor   | Diagnosis     | ICD-10-CM |
| S02.30   | Fracture of orbital floor, unspecified side   | Diagnosis     | ICD-10-CM |
| S02.30XA | Fracture of orbital floor, unspecified side, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S02.30XB | Fracture of orbital floor, unspecified side, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S02.30XD | Fracture of orbital floor, unspecified side, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S02.30XG | Fracture of orbital floor, unspecified side, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S02.30XK | Fracture of orbital floor, unspecified side, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S02.30XS | Fracture of orbital floor, unspecified side, sequela  | Diagnosis     | ICD-10-CM |
| S02.31   | Fracture of orbital floor, right side   | Diagnosis     | ICD-10-CM |
| S02.31XA | Fracture of orbital floor, right side, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S02.31XB | Fracture of orbital floor, right side, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S02.31XD | Fracture of orbital floor, right side, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S02.31XG | Fracture of orbital floor, right side, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S02.31XK | Fracture of orbital floor, right side, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S02.31XS | Fracture of orbital floor, right side, sequela  | Diagnosis     | ICD-10-CM |
| S02.32   | Fracture of orbital floor, left side  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S02.32XA | Fracture of orbital floor, left side, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S02.32XB | Fracture of orbital floor, left side, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S02.32XD | Fracture of orbital floor, left side, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S02.32XG | Fracture of orbital floor, left side, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S02.32XK | Fracture of orbital floor, left side, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S02.32XS | Fracture of orbital floor, left side, sequela  | Diagnosis     | ICD-10-CM |
| S02.3XXA | Fracture of orbital floor, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S02.3XXB | Fracture of orbital floor, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S02.3XXD | Fracture of orbital floor, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S02.3XXG | Fracture of orbital floor, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S02.3XXK | Fracture of orbital floor, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S02.3XXS | Fracture of orbital floor, sequela   | Diagnosis     | ICD-10-CM |
| S02.4    | Fracture of malar, maxillary and zygoma bones  | Diagnosis     | ICD-10-CM |
| S02.40   | Fracture of malar, maxillary and zygoma bones, unspecified                                   | Diagnosis     | ICD-10-CM |
| S02.400  | Malar fracture, unspecified side   | Diagnosis     | ICD-10-CM |
| S02.400A | Malar fracture, unspecified side, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S02.400B | Malar fracture, unspecified side, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S02.400D | Malar fracture, unspecified side, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S02.400G | Malar fracture, unspecified side, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S02.400K | Malar fracture, unspecified side, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S02.400S | Malar fracture, unspecified side, sequela  | Diagnosis     | ICD-10-CM |
| S02.401  | Maxillary fracture, unspecified side   | Diagnosis     | ICD-10-CM |
| S02.401A | Maxillary fracture, unspecified side, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S02.401B | Maxillary fracture, unspecified side, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S02.401D | Maxillary fracture, unspecified side, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S02.401G | Maxillary fracture, unspecified side, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S02.401K | Maxillary fracture, unspecified side, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S02.401S | Maxillary fracture, unspecified side, sequela  | Diagnosis     | ICD-10-CM |
| S02.402  | Zygomatic fracture, unspecified side   | Diagnosis     | ICD-10-CM |
| S02.402A | Zygomatic fracture, unspecified side, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S02.402B | Zygomatic fracture, unspecified side, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S02.402D | Zygomatic fracture, unspecified side, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S02.402G | Zygomatic fracture, unspecified side, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S02.402K | Zygomatic fracture, unspecified side, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S02.402S | Zygomatic fracture, unspecified side, sequela  | Diagnosis     | ICD-10-CM |
| S02.40A  | Malar fracture, right side   | Diagnosis     | ICD-10-CM |
| S02.40AA | Malar fracture, right side, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S02.40AB | Malar fracture, right side, initial encounter for open fracture                              | Diagnosis     | ICD-10-CM |
| S02.40AD | Malar fracture, right side, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S02.40AG | Malar fracture, right side, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S02.40AK | Malar fracture, right side, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S02.40AS | Malar fracture, right side, sequela  | Diagnosis     | ICD-10-CM |
| S02.40B  | Malar fracture, left side  | Diagnosis     | ICD-10-CM |
| S02.40BA | Malar fracture, left side, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S02.40BB | Malar fracture, left side, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S02.40BD | Malar fracture, left side, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S02.40BG | Malar fracture, left side, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S02.40BK | Malar fracture, left side, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S02.40BS | Malar fracture, left side, sequela   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S02.40C  | Maxillary fracture, right side   | Diagnosis     | ICD-10-CM |
| S02.40CA | Maxillary fracture, right side, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S02.40CB | Maxillary fracture, right side, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S02.40CD | Maxillary fracture, right side, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S02.40CG | Maxillary fracture, right side, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S02.40CK | Maxillary fracture, right side, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S02.40CS | Maxillary fracture, right side, sequela  | Diagnosis     | ICD-10-CM |
| S02.40D  | Maxillary fracture, left side  | Diagnosis     | ICD-10-CM |
| S02.40DA | Maxillary fracture, left side, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S02.40DB | Maxillary fracture, left side, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S02.40DD | Maxillary fracture, left side, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S02.40DG | Maxillary fracture, left side, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S02.40DK | Maxillary fracture, left side, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S02.40DS | Maxillary fracture, left side, sequela   | Diagnosis     | ICD-10-CM |
| S02.40E  | Zygomatic fracture, right side   | Diagnosis     | ICD-10-CM |
| S02.40EA | Zygomatic fracture, right side, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S02.40EB | Zygomatic fracture, right side, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S02.40ED | Zygomatic fracture, right side, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S02.40EG | Zygomatic fracture, right side, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S02.40EK | Zygomatic fracture, right side, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S02.40ES | Zygomatic fracture, right side, sequela  | Diagnosis     | ICD-10-CM |
| S02.40F  | Zygomatic fracture, left side  | Diagnosis     | ICD-10-CM |
| S02.40FA | Zygomatic fracture, left side, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S02.40FB | Zygomatic fracture, left side, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S02.40FD | Zygomatic fracture, left side, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S02.40FG | Zygomatic fracture, left side, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S02.40FK | Zygomatic fracture, left side, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S02.40FS | Zygomatic fracture, left side, sequela   | Diagnosis     | ICD-10-CM |
| S02.41   | LeFort fracture  | Diagnosis     | ICD-10-CM |
| S02.411  | LeFort I fracture  | Diagnosis     | ICD-10-CM |
| S02.411A | LeFort I fracture, initial encounter for closed fracture                               | Diagnosis     | ICD-10-CM |
| S02.411B | LeFort I fracture, initial encounter for open fracture                                 | Diagnosis     | ICD-10-CM |
| S02.411D | LeFort I fracture, subsequent encounter for fracture with routine healing              | Diagnosis     | ICD-10-CM |
| S02.411G | LeFort I fracture, subsequent encounter for fracture with delayed healing              | Diagnosis     | ICD-10-CM |
| S02.411K | LeFort I fracture, subsequent encounter for fracture with nonunion                     | Diagnosis     | ICD-10-CM |
| S02.411S | LeFort I fracture, sequela   | Diagnosis     | ICD-10-CM |
| S02.412  | LeFort II fracture   | Diagnosis     | ICD-10-CM |
| S02.412A | LeFort II fracture, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S02.412B | LeFort II fracture, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S02.412D | LeFort II fracture, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S02.412G | LeFort II fracture, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S02.412K | LeFort II fracture, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S02.412S | LeFort II fracture, sequela  | Diagnosis     | ICD-10-CM |
| S02.413  | LeFort III fracture  | Diagnosis     | ICD-10-CM |
| S02.413A | LeFort III fracture, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S02.413B | LeFort III fracture, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S02.413D | LeFort III fracture, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S02.413G | LeFort III fracture, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S02.413K | LeFort III fracture, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S02.413S | LeFort III fracture, sequela   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S02.42   | Fracture of alveolus of maxilla  | Diagnosis     | ICD-10-CM |
| S02.42XA | Fracture of alveolus of maxilla, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S02.42XB | Fracture of alveolus of maxilla, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S02.42XD | Fracture of alveolus of maxilla, subsequent encounter for fracture with routine healing                                    | Diagnosis     | ICD-10-CM |
| S02.42XG | Fracture of alveolus of maxilla, subsequent encounter for fracture with delayed healing                                    | Diagnosis     | ICD-10-CM |
| S02.42XK | Fracture of alveolus of maxilla, subsequent encounter for fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S02.42XS | Fracture of alveolus of maxilla, sequela   | Diagnosis     | ICD-10-CM |
| S02.5    | Fracture of tooth (traumatic)  | Diagnosis     | ICD-10-CM |
| S02.5XXA | Fracture of tooth (traumatic), initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S02.5XXB | Fracture of tooth (traumatic), initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S02.5XXD | Fracture of tooth (traumatic), subsequent encounter for fracture with routine healing                                      | Diagnosis     | ICD-10-CM |
| S02.5XXG | Fracture of tooth (traumatic), subsequent encounter for fracture with delayed healing                                      | Diagnosis     | ICD-10-CM |
| S02.5XXK | Fracture of tooth (traumatic), subsequent encounter for fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S02.5XXS | Fracture of tooth (traumatic), sequela   | Diagnosis     | ICD-10-CM |
| S02.6    | Fracture of mandible   | Diagnosis     | ICD-10-CM |
| S02.60   | Fracture of mandible, unspecified  | Diagnosis     | ICD-10-CM |
| S02.600  | Fracture of unspecified part of body of mandible, unspecified side   | Diagnosis     | ICD-10-CM |
| S02.600A | Fracture of unspecified part of body of mandible, unspecified side, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S02.600B | Fracture of unspecified part of body of mandible, unspecified side, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S02.600D | Fracture of unspecified part of body of mandible, unspecified side, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S02.600G | Fracture of unspecified part of body of mandible, unspecified side, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S02.600K | Fracture of unspecified part of body of mandible, unspecified side, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S02.600S | Fracture of unspecified part of body of mandible, unspecified side, sequela  | Diagnosis     | ICD-10-CM |
| S02.601  | Fracture of unspecified part of body of right mandible   | Diagnosis     | ICD-10-CM |
| S02.601A | Fracture of unspecified part of body of right mandible, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S02.601B | Fracture of unspecified part of body of right mandible, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S02.601D | Fracture of unspecified part of body of right mandible, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S02.601G | Fracture of unspecified part of body of right mandible, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S02.601K | Fracture of unspecified part of body of right mandible, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S02.601S | Fracture of unspecified part of body of right mandible, sequela  | Diagnosis     | ICD-10-CM |
| S02.602  | Fracture of unspecified part of body of left mandible  | Diagnosis     | ICD-10-CM |
| S02.602A | Fracture of unspecified part of body of left mandible, initial encounter for closed fracture                               | Diagnosis     | ICD-10-CM |
| S02.602B | Fracture of unspecified part of body of left mandible, initial encounter for open fracture                                 | Diagnosis     | ICD-10-CM |
| S02.602D | Fracture of unspecified part of body of left mandible, subsequent encounter for fracture with routine healing              | Diagnosis     | ICD-10-CM |
| S02.602G | Fracture of unspecified part of body of left mandible, subsequent encounter for fracture with delayed healing              | Diagnosis     | ICD-10-CM |
| S02.602K | Fracture of unspecified part of body of left mandible, subsequent encounter for fracture with nonunion                     | Diagnosis     | ICD-10-CM |
| S02.602S | Fracture of unspecified part of body of left mandible, sequela   | Diagnosis     | ICD-10-CM |
| S02.609  | Fracture of mandible, unspecified  | Diagnosis     | ICD-10-CM |
| S02.609A | Fracture of mandible, unspecified, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S02.609B | Fracture of mandible, unspecified, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S02.609D | Fracture of mandible, unspecified, subsequent encounter for fracture with routine healing                          | Diagnosis     | ICD-10-CM |
| S02.609G | Fracture of mandible, unspecified, subsequent encounter for fracture with delayed healing                          | Diagnosis     | ICD-10-CM |
| S02.609K | Fracture of mandible, unspecified, subsequent encounter for fracture with nonunion                                 | Diagnosis     | ICD-10-CM |
| S02.609S | Fracture of mandible, unspecified, sequela   | Diagnosis     | ICD-10-CM |
| S02.61   | Fracture of condylar process of mandible   | Diagnosis     | ICD-10-CM |
| S02.610  | Fracture of condylar process of mandible, unspecified side   | Diagnosis     | ICD-10-CM |
| S02.610A | Fracture of condylar process of mandible, unspecified side, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S02.610B | Fracture of condylar process of mandible, unspecified side, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S02.610D | Fracture of condylar process of mandible, unspecified side, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S02.610G | Fracture of condylar process of mandible, unspecified side, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S02.610K | Fracture of condylar process of mandible, unspecified side, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S02.610S | Fracture of condylar process of mandible, unspecified side, sequela  | Diagnosis     | ICD-10-CM |
| S02.611  | Fracture of condylar process of right mandible   | Diagnosis     | ICD-10-CM |
| S02.611A | Fracture of condylar process of right mandible, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S02.611B | Fracture of condylar process of right mandible, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S02.611D | Fracture of condylar process of right mandible, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S02.611G | Fracture of condylar process of right mandible, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S02.611K | Fracture of condylar process of right mandible, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S02.611S | Fracture of condylar process of right mandible, sequela  | Diagnosis     | ICD-10-CM |
| S02.612  | Fracture of condylar process of left mandible  | Diagnosis     | ICD-10-CM |
| S02.612A | Fracture of condylar process of left mandible, initial encounter for closed fracture                               | Diagnosis     | ICD-10-CM |
| S02.612B | Fracture of condylar process of left mandible, initial encounter for open fracture                                 | Diagnosis     | ICD-10-CM |
| S02.612D | Fracture of condylar process of left mandible, subsequent encounter for fracture with routine healing              | Diagnosis     | ICD-10-CM |
| S02.612G | Fracture of condylar process of left mandible, subsequent encounter for fracture with delayed healing              | Diagnosis     | ICD-10-CM |
| S02.612K | Fracture of condylar process of left mandible, subsequent encounter for fracture with nonunion                     | Diagnosis     | ICD-10-CM |
| S02.612S | Fracture of condylar process of left mandible, sequela   | Diagnosis     | ICD-10-CM |
| S02.61XA | Fracture of condylar process of mandible, initial encounter for closed fracture                                    | Diagnosis     | ICD-10-CM |
| S02.61XB | Fracture of condylar process of mandible, initial encounter for open fracture                                      | Diagnosis     | ICD-10-CM |
| S02.61XD | Fracture of condylar process of mandible, subsequent encounter for fracture with routine healing                   | Diagnosis     | ICD-10-CM |
| S02.61XG | Fracture of condylar process of mandible, subsequent encounter for fracture with delayed healing                   | Diagnosis     | ICD-10-CM |
| S02.61XK | Fracture of condylar process of mandible, subsequent encounter for fracture with nonunion                          | Diagnosis     | ICD-10-CM |
| S02.61XS | Fracture of condylar process of mandible, sequela  | Diagnosis     | ICD-10-CM |
| S02.62   | Fracture of subcondylar process of mandible  | Diagnosis     | ICD-10-CM |
| S02.620  | Fracture of subcondylar process of mandible, unspecified side  | Diagnosis     | ICD-10-CM |
| S02.620A | Fracture of subcondylar process of mandible, unspecified side, initial encounter for closed fracture               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S02.620B | Fracture of subcondylar process of mandible, unspecified side, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S02.620D | Fracture of subcondylar process of mandible, unspecified side, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S02.620G | Fracture of subcondylar process of mandible, unspecified side, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S02.620K | Fracture of subcondylar process of mandible, unspecified side, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S02.620S | Fracture of subcondylar process of mandible, unspecified side, sequela  | Diagnosis     | ICD-10-CM |
| S02.621  | Fracture of subcondylar process of right mandible   | Diagnosis     | ICD-10-CM |
| S02.621A | Fracture of subcondylar process of right mandible, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S02.621B | Fracture of subcondylar process of right mandible, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S02.621D | Fracture of subcondylar process of right mandible, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S02.621G | Fracture of subcondylar process of right mandible, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S02.621K | Fracture of subcondylar process of right mandible, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S02.621S | Fracture of subcondylar process of right mandible, sequela  | Diagnosis     | ICD-10-CM |
| S02.622  | Fracture of subcondylar process of left mandible  | Diagnosis     | ICD-10-CM |
| S02.622A | Fracture of subcondylar process of left mandible, initial encounter for closed fracture                               | Diagnosis     | ICD-10-CM |
| S02.622B | Fracture of subcondylar process of left mandible, initial encounter for open fracture                                 | Diagnosis     | ICD-10-CM |
| S02.622D | Fracture of subcondylar process of left mandible, subsequent encounter for fracture with routine healing              | Diagnosis     | ICD-10-CM |
| S02.622G | Fracture of subcondylar process of left mandible, subsequent encounter for fracture with delayed healing              | Diagnosis     | ICD-10-CM |
| S02.622K | Fracture of subcondylar process of left mandible, subsequent encounter for fracture with nonunion                     | Diagnosis     | ICD-10-CM |
| S02.622S | Fracture of subcondylar process of left mandible, sequela   | Diagnosis     | ICD-10-CM |
| S02.62XA | Fracture of subcondylar process of mandible, initial encounter for closed fracture                                    | Diagnosis     | ICD-10-CM |
| S02.62XB | Fracture of subcondylar process of mandible, initial encounter for open fracture                                      | Diagnosis     | ICD-10-CM |
| S02.62XD | Fracture of subcondylar process of mandible, subsequent encounter for fracture with routine healing                   | Diagnosis     | ICD-10-CM |
| S02.62XG | Fracture of subcondylar process of mandible, subsequent encounter for fracture with delayed healing                   | Diagnosis     | ICD-10-CM |
| S02.62XK | Fracture of subcondylar process of mandible, subsequent encounter for fracture with nonunion                          | Diagnosis     | ICD-10-CM |
| S02.62XS | Fracture of subcondylar process of mandible, sequela  | Diagnosis     | ICD-10-CM |
| S02.63   | Fracture of coronoid process of mandible  | Diagnosis     | ICD-10-CM |
| S02.630  | Fracture of coronoid process of mandible, unspecified side  | Diagnosis     | ICD-10-CM |
| S02.630A | Fracture of coronoid process of mandible, unspecified side, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S02.630B | Fracture of coronoid process of mandible, unspecified side, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S02.630D | Fracture of coronoid process of mandible, unspecified side, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S02.630G | Fracture of coronoid process of mandible, unspecified side, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S02.630K | Fracture of coronoid process of mandible, unspecified side, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S02.630S | Fracture of coronoid process of mandible, unspecified side, sequela                                     | Diagnosis     | ICD-10-CM |
| S02.631  | Fracture of coronoid process of right mandible  | Diagnosis     | ICD-10-CM |
| S02.631A | Fracture of coronoid process of right mandible, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S02.631B | Fracture of coronoid process of right mandible, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S02.631D | Fracture of coronoid process of right mandible, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S02.631G | Fracture of coronoid process of right mandible, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S02.631K | Fracture of coronoid process of right mandible, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S02.631S | Fracture of coronoid process of right mandible, sequela   | Diagnosis     | ICD-10-CM |
| S02.632  | Fracture of coronoid process of left mandible   | Diagnosis     | ICD-10-CM |
| S02.632A | Fracture of coronoid process of left mandible, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S02.632B | Fracture of coronoid process of left mandible, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S02.632D | Fracture of coronoid process of left mandible, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S02.632G | Fracture of coronoid process of left mandible, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S02.632K | Fracture of coronoid process of left mandible, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S02.632S | Fracture of coronoid process of left mandible, sequela  | Diagnosis     | ICD-10-CM |
| S02.63XA | Fracture of coronoid process of mandible, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S02.63XB | Fracture of coronoid process of mandible, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S02.63XD | Fracture of coronoid process of mandible, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S02.63XG | Fracture of coronoid process of mandible, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S02.63XK | Fracture of coronoid process of mandible, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S02.63XS | Fracture of coronoid process of mandible, sequela   | Diagnosis     | ICD-10-CM |
| S02.64   | Fracture of ramus of mandible   | Diagnosis     | ICD-10-CM |
| S02.640  | Fracture of ramus of mandible, unspecified side   | Diagnosis     | ICD-10-CM |
| S02.640A | Fracture of ramus of mandible, unspecified side, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S02.640B | Fracture of ramus of mandible, unspecified side, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S02.640D | Fracture of ramus of mandible, unspecified side, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S02.640G | Fracture of ramus of mandible, unspecified side, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S02.640K | Fracture of ramus of mandible, unspecified side, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S02.640S | Fracture of ramus of mandible, unspecified side, sequela  | Diagnosis     | ICD-10-CM |
| S02.641  | Fracture of ramus of right mandible   | Diagnosis     | ICD-10-CM |
| S02.641A | Fracture of ramus of right mandible, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S02.641B | Fracture of ramus of right mandible, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S02.641D | Fracture of ramus of right mandible, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S02.641G | Fracture of ramus of right mandible, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S02.641K | Fracture of ramus of right mandible, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S02.641S | Fracture of ramus of right mandible, sequela  | Diagnosis     | ICD-10-CM |
| S02.642  | Fracture of ramus of left mandible  | Diagnosis     | ICD-10-CM |
| S02.642A | Fracture of ramus of left mandible, initial encounter for closed fracture                               | Diagnosis     | ICD-10-CM |
| S02.642B | Fracture of ramus of left mandible, initial encounter for open fracture                                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S02.642D | Fracture of ramus of left mandible, subsequent encounter for fracture with routine healing              | Diagnosis     | ICD-10-CM |
| S02.642G | Fracture of ramus of left mandible, subsequent encounter for fracture with delayed healing              | Diagnosis     | ICD-10-CM |
| S02.642K | Fracture of ramus of left mandible, subsequent encounter for fracture with nonunion                     | Diagnosis     | ICD-10-CM |
| S02.642S | Fracture of ramus of left mandible, sequela   | Diagnosis     | ICD-10-CM |
| S02.64XA | Fracture of ramus of mandible, initial encounter for closed fracture                                    | Diagnosis     | ICD-10-CM |
| S02.64XB | Fracture of ramus of mandible, initial encounter for open fracture                                      | Diagnosis     | ICD-10-CM |
| S02.64XD | Fracture of ramus of mandible, subsequent encounter for fracture with routine healing                   | Diagnosis     | ICD-10-CM |
| S02.64XG | Fracture of ramus of mandible, subsequent encounter for fracture with delayed healing                   | Diagnosis     | ICD-10-CM |
| S02.64XK | Fracture of ramus of mandible, subsequent encounter for fracture with nonunion                          | Diagnosis     | ICD-10-CM |
| S02.64XS | Fracture of ramus of mandible, sequela  | Diagnosis     | ICD-10-CM |
| S02.65   | Fracture of angle of mandible   | Diagnosis     | ICD-10-CM |
| S02.650  | Fracture of angle of mandible, unspecified side   | Diagnosis     | ICD-10-CM |
| S02.650A | Fracture of angle of mandible, unspecified side, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S02.650B | Fracture of angle of mandible, unspecified side, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S02.650D | Fracture of angle of mandible, unspecified side, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S02.650G | Fracture of angle of mandible, unspecified side, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S02.650K | Fracture of angle of mandible, unspecified side, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S02.650S | Fracture of angle of mandible, unspecified side, sequela  | Diagnosis     | ICD-10-CM |
| S02.651  | Fracture of angle of right mandible   | Diagnosis     | ICD-10-CM |
| S02.651A | Fracture of angle of right mandible, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S02.651B | Fracture of angle of right mandible, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S02.651D | Fracture of angle of right mandible, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S02.651G | Fracture of angle of right mandible, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S02.651K | Fracture of angle of right mandible, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S02.651S | Fracture of angle of right mandible, sequela  | Diagnosis     | ICD-10-CM |
| S02.652  | Fracture of angle of left mandible  | Diagnosis     | ICD-10-CM |
| S02.652A | Fracture of angle of left mandible, initial encounter for closed fracture                               | Diagnosis     | ICD-10-CM |
| S02.652B | Fracture of angle of left mandible, initial encounter for open fracture                                 | Diagnosis     | ICD-10-CM |
| S02.652D | Fracture of angle of left mandible, subsequent encounter for fracture with routine healing              | Diagnosis     | ICD-10-CM |
| S02.652G | Fracture of angle of left mandible, subsequent encounter for fracture with delayed healing              | Diagnosis     | ICD-10-CM |
| S02.652K | Fracture of angle of left mandible, subsequent encounter for fracture with nonunion                     | Diagnosis     | ICD-10-CM |
| S02.652S | Fracture of angle of left mandible, sequela   | Diagnosis     | ICD-10-CM |
| S02.65XA | Fracture of angle of mandible, initial encounter for closed fracture                                    | Diagnosis     | ICD-10-CM |
| S02.65XB | Fracture of angle of mandible, initial encounter for open fracture                                      | Diagnosis     | ICD-10-CM |
| S02.65XD | Fracture of angle of mandible, subsequent encounter for fracture with routine healing                   | Diagnosis     | ICD-10-CM |
| S02.65XG | Fracture of angle of mandible, subsequent encounter for fracture with delayed healing                   | Diagnosis     | ICD-10-CM |
| S02.65XK | Fracture of angle of mandible, subsequent encounter for fracture with nonunion                          | Diagnosis     | ICD-10-CM |
| S02.65XS | Fracture of angle of mandible, sequela  | Diagnosis     | ICD-10-CM |
| S02.66   | Fracture of symphysis of mandible   | Diagnosis     | ICD-10-CM |
| S02.66XA | Fracture of symphysis of mandible, initial encounter for closed fracture                                | Diagnosis     | ICD-10-CM |
| S02.66XB | Fracture of symphysis of mandible, initial encounter for open fracture                                  | Diagnosis     | ICD-10-CM |
| S02.66XD | Fracture of symphysis of mandible, subsequent encounter for fracture with routine healing               | Diagnosis     | ICD-10-CM |
| S02.66XG | Fracture of symphysis of mandible, subsequent encounter for fracture with delayed healing               | Diagnosis     | ICD-10-CM |
| S02.66XK | Fracture of symphysis of mandible, subsequent encounter for fracture with nonunion                      | Diagnosis     | ICD-10-CM |
| S02.66XS | Fracture of symphysis of mandible, sequela  | Diagnosis     | ICD-10-CM |
| S02.67   | Fracture of alveolus of mandible  | Diagnosis     | ICD-10-CM |
| S02.670  | Fracture of alveolus of mandible, unspecified side  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S02.670A | Fracture of alveolus of mandible, unspecified side, initial encounter for closed fracture                                    | Diagnosis     | ICD-10-CM |
| S02.670B | Fracture of alveolus of mandible, unspecified side, initial encounter for open fracture                                      | Diagnosis     | ICD-10-CM |
| S02.670D | Fracture of alveolus of mandible, unspecified side, subsequent encounter for fracture with routine healing                   | Diagnosis     | ICD-10-CM |
| S02.670G | Fracture of alveolus of mandible, unspecified side, subsequent encounter for fracture with delayed healing                   | Diagnosis     | ICD-10-CM |
| S02.670K | Fracture of alveolus of mandible, unspecified side, subsequent encounter for fracture with nonunion                          | Diagnosis     | ICD-10-CM |
| S02.670S | Fracture of alveolus of mandible, unspecified side, sequela  | Diagnosis     | ICD-10-CM |
| S02.671  | Fracture of alveolus of right mandible   | Diagnosis     | ICD-10-CM |
| S02.671A | Fracture of alveolus of right mandible, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S02.671B | Fracture of alveolus of right mandible, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S02.671D | Fracture of alveolus of right mandible, subsequent encounter for fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S02.671G | Fracture of alveolus of right mandible, subsequent encounter for fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S02.671K | Fracture of alveolus of right mandible, subsequent encounter for fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S02.671S | Fracture of alveolus of right mandible, sequela  | Diagnosis     | ICD-10-CM |
| S02.672  | Fracture of alveolus of left mandible  | Diagnosis     | ICD-10-CM |
| S02.672A | Fracture of alveolus of left mandible, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S02.672B | Fracture of alveolus of left mandible, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S02.672D | Fracture of alveolus of left mandible, subsequent encounter for fracture with routine healing                                | Diagnosis     | ICD-10-CM |
| S02.672G | Fracture of alveolus of left mandible, subsequent encounter for fracture with delayed healing                                | Diagnosis     | ICD-10-CM |
| S02.672K | Fracture of alveolus of left mandible, subsequent encounter for fracture with nonunion                                       | Diagnosis     | ICD-10-CM |
| S02.672S | Fracture of alveolus of left mandible, sequela   | Diagnosis     | ICD-10-CM |
| S02.67XA | Fracture of alveolus of mandible, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S02.67XB | Fracture of alveolus of mandible, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S02.67XD | Fracture of alveolus of mandible, subsequent encounter for fracture with routine healing                                     | Diagnosis     | ICD-10-CM |
| S02.67XG | Fracture of alveolus of mandible, subsequent encounter for fracture with delayed healing                                     | Diagnosis     | ICD-10-CM |
| S02.67XK | Fracture of alveolus of mandible, subsequent encounter for fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S02.67XS | Fracture of alveolus of mandible, sequela  | Diagnosis     | ICD-10-CM |
| S02.69   | Fracture of mandible of other specified site   | Diagnosis     | ICD-10-CM |
| S02.69XA | Fracture of mandible of other specified site, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S02.69XB | Fracture of mandible of other specified site, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S02.69XD | Fracture of mandible of other specified site, subsequent encounter for fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S02.69XG | Fracture of mandible of other specified site, subsequent encounter for fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S02.69XK | Fracture of mandible of other specified site, subsequent encounter for fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S02.69XS | Fracture of mandible of other specified site, sequela  | Diagnosis     | ICD-10-CM |
| S02.8    | Fractures of other specified skull and facial bones  | Diagnosis     | ICD-10-CM |
| S02.80   | Fracture of other specified skull and facial bones, unspecified side   | Diagnosis     | ICD-10-CM |
| S02.80XA | Fracture of other specified skull and facial bones, unspecified side, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S02.80XB | Fracture of other specified skull and facial bones, unspecified side, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S02.80XD | Fracture of other specified skull and facial bones, unspecified side, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S02.80XG | Fracture of other specified skull and facial bones, unspecified side, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S02.80XK | Fracture of other specified skull and facial bones, unspecified side, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S02.80XS | Fracture of other specified skull and facial bones, unspecified side, sequela  | Diagnosis     | ICD-10-CM |
| S02.81   | Fracture of other specified skull and facial bones, right side   | Diagnosis     | ICD-10-CM |
| S02.81XA | Fracture of other specified skull and facial bones, right side, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S02.81XB | Fracture of other specified skull and facial bones, right side, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S02.81XD | Fracture of other specified skull and facial bones, right side, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S02.81XG | Fracture of other specified skull and facial bones, right side, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S02.81XK | Fracture of other specified skull and facial bones, right side, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S02.81XS | Fracture of other specified skull and facial bones, right side, sequela  | Diagnosis     | ICD-10-CM |
| S02.82   | Fracture of other specified skull and facial bones, left side  | Diagnosis     | ICD-10-CM |
| S02.82XA | Fracture of other specified skull and facial bones, left side, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S02.82XB | Fracture of other specified skull and facial bones, left side, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S02.82XD | Fracture of other specified skull and facial bones, left side, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S02.82XG | Fracture of other specified skull and facial bones, left side, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S02.82XK | Fracture of other specified skull and facial bones, left side, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S02.82XS | Fracture of other specified skull and facial bones, left side, sequela   | Diagnosis     | ICD-10-CM |
| S02.83   | Fracture of medial orbital wall  | Diagnosis     | ICD-10-CM |
| S02.831  | Fracture of medial orbital wall, right side  | Diagnosis     | ICD-10-CM |
| S02.831A | Fracture of medial orbital wall, right side, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S02.831B | Fracture of medial orbital wall, right side, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S02.831D | Fracture of medial orbital wall, right side, subsequent encounter for fracture with routine healing                          | Diagnosis     | ICD-10-CM |
| S02.831G | Fracture of medial orbital wall, right side, subsequent encounter for fracture with delayed healing                          | Diagnosis     | ICD-10-CM |
| S02.831K | Fracture of medial orbital wall, right side, subsequent encounter for fracture with nonunion                                 | Diagnosis     | ICD-10-CM |
| S02.831S | Fracture of medial orbital wall, right side, sequela   | Diagnosis     | ICD-10-CM |
| S02.832  | Fracture of medial orbital wall, left side   | Diagnosis     | ICD-10-CM |
| S02.832A | Fracture of medial orbital wall, left side, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S02.832B | Fracture of medial orbital wall, left side, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S02.832D | Fracture of medial orbital wall, left side, subsequent encounter for fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S02.832G | Fracture of medial orbital wall, left side, subsequent encounter for fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S02.832K | Fracture of medial orbital wall, left side, subsequent encounter for fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S02.832S | Fracture of medial orbital wall, left side, sequela  | Diagnosis     | ICD-10-CM |
| S02.839  | Fracture of medial orbital wall, unspecified side  | Diagnosis     | ICD-10-CM |
| S02.839A | Fracture of medial orbital wall, unspecified side, initial encounter for closed fracture                                     | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S02.839B | Fracture of medial orbital wall, unspecified side, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S02.839D | Fracture of medial orbital wall, unspecified side, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S02.839G | Fracture of medial orbital wall, unspecified side, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S02.839K | Fracture of medial orbital wall, unspecified side, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S02.839S | Fracture of medial orbital wall, unspecified side, sequela  | Diagnosis     | ICD-10-CM |
| S02.84   | Fracture of lateral orbital wall  | Diagnosis     | ICD-10-CM |
| S02.841  | Fracture of lateral orbital wall, right side  | Diagnosis     | ICD-10-CM |
| S02.841A | Fracture of lateral orbital wall, right side, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S02.841B | Fracture of lateral orbital wall, right side, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S02.841D | Fracture of lateral orbital wall, right side, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S02.841G | Fracture of lateral orbital wall, right side, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S02.841K | Fracture of lateral orbital wall, right side, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S02.841S | Fracture of lateral orbital wall, right side, sequela   | Diagnosis     | ICD-10-CM |
| S02.842  | Fracture of lateral orbital wall, left side   | Diagnosis     | ICD-10-CM |
| S02.842A | Fracture of lateral orbital wall, left side, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S02.842B | Fracture of lateral orbital wall, left side, initial encounter for open fracture                            | Diagnosis     | ICD-10-CM |
| S02.842D | Fracture of lateral orbital wall, left side, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S02.842G | Fracture of lateral orbital wall, left side, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S02.842K | Fracture of lateral orbital wall, left side, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S02.842S | Fracture of lateral orbital wall, left side, sequela  | Diagnosis     | ICD-10-CM |
| S02.849  | Fracture of lateral orbital wall, unspecified side  | Diagnosis     | ICD-10-CM |
| S02.849A | Fracture of lateral orbital wall, unspecified side, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S02.849B | Fracture of lateral orbital wall, unspecified side, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S02.849D | Fracture of lateral orbital wall, unspecified side, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S02.849G | Fracture of lateral orbital wall, unspecified side, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S02.849K | Fracture of lateral orbital wall, unspecified side, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S02.849S | Fracture of lateral orbital wall, unspecified side, sequela   | Diagnosis     | ICD-10-CM |
| S02.85   | Fracture of orbit, unspecified  | Diagnosis     | ICD-10-CM |
| S02.85XA | Fracture of orbit, unspecified, initial encounter for closed fracture                                       | Diagnosis     | ICD-10-CM |
| S02.85XB | Fracture of orbit, unspecified, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S02.85XD | Fracture of orbit, unspecified, subsequent encounter for fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S02.85XG | Fracture of orbit, unspecified, subsequent encounter for fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S02.85XK | Fracture of orbit, unspecified, subsequent encounter for fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S02.85XS | Fracture of orbit, unspecified, sequela   | Diagnosis     | ICD-10-CM |
| S02.8XXA | Fractures of other specified skull and facial bones, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S02.8XXB | Fractures of other specified skull and facial bones, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S02.8XXD | Fractures of other specified skull and facial bones, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S02.8XXG | Fractures of other specified skull and facial bones, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S02.8XXK | Fractures of other specified skull and facial bones, subsequent encounter for fracture with nonunion | Diagnosis     | ICD-10-CM |
| S02.8XXS | Fractures of other specified skull and facial bones, sequela   | Diagnosis     | ICD-10-CM |
| S02.9    | Fracture of unspecified skull and facial bones   | Diagnosis     | ICD-10-CM |
| S02.91   | Unspecified fracture of skull  | Diagnosis     | ICD-10-CM |
| S02.91XA | Unspecified fracture of skull, initial encounter for closed fracture                                 | Diagnosis     | ICD-10-CM |
| S02.91XB | Unspecified fracture of skull, initial encounter for open fracture                                   | Diagnosis     | ICD-10-CM |
| S02.91XD | Unspecified fracture of skull, subsequent encounter for fracture with routine healing                | Diagnosis     | ICD-10-CM |
| S02.91XG | Unspecified fracture of skull, subsequent encounter for fracture with delayed healing                | Diagnosis     | ICD-10-CM |
| S02.91XK | Unspecified fracture of skull, subsequent encounter for fracture with nonunion                       | Diagnosis     | ICD-10-CM |
| S02.91XS | Unspecified fracture of skull, sequela   | Diagnosis     | ICD-10-CM |
| S02.92   | Unspecified fracture of facial bones   | Diagnosis     | ICD-10-CM |
| S02.92XA | Unspecified fracture of facial bones, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S02.92XB | Unspecified fracture of facial bones, initial encounter for open fracture                            | Diagnosis     | ICD-10-CM |
| S02.92XD | Unspecified fracture of facial bones, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S02.92XG | Unspecified fracture of facial bones, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S02.92XK | Unspecified fracture of facial bones, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S02.92XS | Unspecified fracture of facial bones, sequela  | Diagnosis     | ICD-10-CM |
| S03      | Dislocation and sprain of joints and ligaments of head   | Diagnosis     | ICD-10-CM |
| S03.0    | Dislocation of jaw   | Diagnosis     | ICD-10-CM |
| S03.00   | Dislocation of jaw, unspecified side   | Diagnosis     | ICD-10-CM |
| S03.00XA | Dislocation of jaw, unspecified side, initial encounter  | Diagnosis     | ICD-10-CM |
| S03.00XD | Dislocation of jaw, unspecified side, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S03.00XS | Dislocation of jaw, unspecified side, sequela  | Diagnosis     | ICD-10-CM |
| S03.01   | Dislocation of jaw, right side   | Diagnosis     | ICD-10-CM |
| S03.01XA | Dislocation of jaw, right side, initial encounter  | Diagnosis     | ICD-10-CM |
| S03.01XD | Dislocation of jaw, right side, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S03.01XS | Dislocation of jaw, right side, sequela  | Diagnosis     | ICD-10-CM |
| S03.02   | Dislocation of jaw, left side  | Diagnosis     | ICD-10-CM |
| S03.02XA | Dislocation of jaw, left side, initial encounter   | Diagnosis     | ICD-10-CM |
| S03.02XD | Dislocation of jaw, left side, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S03.02XS | Dislocation of jaw, left side, sequela   | Diagnosis     | ICD-10-CM |
| S03.03   | Dislocation of jaw, bilateral  | Diagnosis     | ICD-10-CM |
| S03.03XA | Dislocation of jaw, bilateral, initial encounter   | Diagnosis     | ICD-10-CM |
| S03.03XD | Dislocation of jaw, bilateral, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S03.03XS | Dislocation of jaw, bilateral, sequela   | Diagnosis     | ICD-10-CM |
| S03.0XXA | Dislocation of jaw, initial encounter  | Diagnosis     | ICD-10-CM |
| S03.0XXD | Dislocation of jaw, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S03.0XXS | Dislocation of jaw, sequela  | Diagnosis     | ICD-10-CM |
| S03.1    | Dislocation of septal cartilage of nose  | Diagnosis     | ICD-10-CM |
| S03.1XXA | Dislocation of septal cartilage of nose, initial encounter   | Diagnosis     | ICD-10-CM |
| S03.1XXD | Dislocation of septal cartilage of nose, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S03.1XXS | Dislocation of septal cartilage of nose, sequela   | Diagnosis     | ICD-10-CM |
| S03.2    | Dislocation of tooth   | Diagnosis     | ICD-10-CM |
| S03.2XXA | Dislocation of tooth, initial encounter  | Diagnosis     | ICD-10-CM |
| S03.2XXD | Dislocation of tooth, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S03.2XXS | Dislocation of tooth, sequela  | Diagnosis     | ICD-10-CM |
| S03.4    | Sprain of jaw  | Diagnosis     | ICD-10-CM |
| S03.40   | Sprain of jaw, unspecified side  | Diagnosis     | ICD-10-CM |
| S03.40XA | Sprain of jaw, unspecified side, initial encounter   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S03.40XD | Sprain of jaw, unspecified side, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S03.40XS | Sprain of jaw, unspecified side, sequela  | Diagnosis     | ICD-10-CM |
| S03.41   | Sprain of jaw, right side   | Diagnosis     | ICD-10-CM |
| S03.41XA | Sprain of jaw, right side, initial encounter                                      | Diagnosis     | ICD-10-CM |
| S03.41XD | Sprain of jaw, right side, subsequent encounter                                   | Diagnosis     | ICD-10-CM |
| S03.41XS | Sprain of jaw, right side, sequela  | Diagnosis     | ICD-10-CM |
| S03.42   | Sprain of jaw, left side  | Diagnosis     | ICD-10-CM |
| S03.42XA | Sprain of jaw, left side, initial encounter                                       | Diagnosis     | ICD-10-CM |
| S03.42XD | Sprain of jaw, left side, subsequent encounter                                    | Diagnosis     | ICD-10-CM |
| S03.42XS | Sprain of jaw, left side, sequela   | Diagnosis     | ICD-10-CM |
| S03.43   | Sprain of jaw, bilateral  | Diagnosis     | ICD-10-CM |
| S03.43XA | Sprain of jaw, bilateral, initial encounter                                       | Diagnosis     | ICD-10-CM |
| S03.43XD | Sprain of jaw, bilateral, subsequent encounter                                    | Diagnosis     | ICD-10-CM |
| S03.43XS | Sprain of jaw, bilateral, sequela   | Diagnosis     | ICD-10-CM |
| S03.4XXA | Sprain of jaw, initial encounter  | Diagnosis     | ICD-10-CM |
| S03.4XXD | Sprain of jaw, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S03.4XXS | Sprain of jaw, sequela  | Diagnosis     | ICD-10-CM |
| S03.8    | Sprain of joints and ligaments of other parts of head                             | Diagnosis     | ICD-10-CM |
| S03.8XXA | Sprain of joints and ligaments of other parts of head, initial encounter          | Diagnosis     | ICD-10-CM |
| S03.8XXD | Sprain of joints and ligaments of other parts of head, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S03.8XXS | Sprain of joints and ligaments of other parts of head, sequela                    | Diagnosis     | ICD-10-CM |
| S03.9    | Sprain of joints and ligaments of unspecified parts of head                       | Diagnosis     | ICD-10-CM |
| S03.9XXA | Sprain of joints and ligaments of unspecified parts of head, initial encounter    | Diagnosis     | ICD-10-CM |
| S03.9XXD | Sprain of joints and ligaments of unspecified parts of head, subsequent encounter | Diagnosis     | ICD-10-CM |
| S03.9XXS | Sprain of joints and ligaments of unspecified parts of head, sequela              | Diagnosis     | ICD-10-CM |
| S04      | Injury of cranial nerve   | Diagnosis     | ICD-10-CM |
| S04.0    | Injury of optic nerve and pathways  | Diagnosis     | ICD-10-CM |
| S04.01   | Injury of optic nerve   | Diagnosis     | ICD-10-CM |
| S04.011  | Injury of optic nerve, right eye  | Diagnosis     | ICD-10-CM |
| S04.011A | Injury of optic nerve, right eye, initial encounter                               | Diagnosis     | ICD-10-CM |
| S04.011D | Injury of optic nerve, right eye, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S04.011S | Injury of optic nerve, right eye, sequela   | Diagnosis     | ICD-10-CM |
| S04.012  | Injury of optic nerve, left eye   | Diagnosis     | ICD-10-CM |
| S04.012A | Injury of optic nerve, left eye, initial encounter                                | Diagnosis     | ICD-10-CM |
| S04.012D | Injury of optic nerve, left eye, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S04.012S | Injury of optic nerve, left eye, sequela  | Diagnosis     | ICD-10-CM |
| S04.019  | Injury of optic nerve, unspecified eye  | Diagnosis     | ICD-10-CM |
| S04.019A | Injury of optic nerve, unspecified eye, initial encounter                         | Diagnosis     | ICD-10-CM |
| S04.019D | Injury of optic nerve, unspecified eye, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S04.019S | Injury of optic nerve, unspecified eye, sequela                                   | Diagnosis     | ICD-10-CM |
| S04.02   | Injury of optic chiasm  | Diagnosis     | ICD-10-CM |
| S04.02XA | Injury of optic chiasm, initial encounter   | Diagnosis     | ICD-10-CM |
| S04.02XD | Injury of optic chiasm, subsequent encounter                                      | Diagnosis     | ICD-10-CM |
| S04.02XS | Injury of optic chiasm, sequela   | Diagnosis     | ICD-10-CM |
| S04.03   | Injury of optic tract and pathways  | Diagnosis     | ICD-10-CM |
| S04.031  | Injury of optic tract and pathways, right side                                    | Diagnosis     | ICD-10-CM |
| S04.031A | Injury of optic tract and pathways, right side, initial encounter                 | Diagnosis     | ICD-10-CM |
| S04.031D | Injury of optic tract and pathways, right side, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S04.031S | Injury of optic tract and pathways, right side, sequela                           | Diagnosis     | ICD-10-CM |
| S04.032  | Injury of optic tract and pathways, left side                                     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S04.032A | Injury of optic tract and pathways, left side, initial encounter           | Diagnosis     | ICD-10-CM |
| S04.032D | Injury of optic tract and pathways, left side, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S04.032S | Injury of optic tract and pathways, left side, sequela                     | Diagnosis     | ICD-10-CM |
| S04.039  | Injury of optic tract and pathways, unspecified side                       | Diagnosis     | ICD-10-CM |
| S04.039A | Injury of optic tract and pathways, unspecified side, initial encounter    | Diagnosis     | ICD-10-CM |
| S04.039D | Injury of optic tract and pathways, unspecified side, subsequent encounter | Diagnosis     | ICD-10-CM |
| S04.039S | Injury of optic tract and pathways, unspecified side, sequela              | Diagnosis     | ICD-10-CM |
| S04.04   | Injury of visual cortex  | Diagnosis     | ICD-10-CM |
| S04.041  | Injury of visual cortex, right side  | Diagnosis     | ICD-10-CM |
| S04.041A | Injury of visual cortex, right side, initial encounter                     | Diagnosis     | ICD-10-CM |
| S04.041D | Injury of visual cortex, right side, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S04.041S | Injury of visual cortex, right side, sequela                               | Diagnosis     | ICD-10-CM |
| S04.042  | Injury of visual cortex, left side   | Diagnosis     | ICD-10-CM |
| S04.042A | Injury of visual cortex, left side, initial encounter                      | Diagnosis     | ICD-10-CM |
| S04.042D | Injury of visual cortex, left side, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S04.042S | Injury of visual cortex, left side, sequela                                | Diagnosis     | ICD-10-CM |
| S04.049  | Injury of visual cortex, unspecified side                                  | Diagnosis     | ICD-10-CM |
| S04.049A | Injury of visual cortex, unspecified side, initial encounter               | Diagnosis     | ICD-10-CM |
| S04.049D | Injury of visual cortex, unspecified side, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S04.049S | Injury of visual cortex, unspecified side, sequela                         | Diagnosis     | ICD-10-CM |
| S04.1    | Injury of oculomotor nerve   | Diagnosis     | ICD-10-CM |
| S04.10   | Injury of oculomotor nerve, unspecified side                               | Diagnosis     | ICD-10-CM |
| S04.10XA | Injury of oculomotor nerve, unspecified side, initial encounter            | Diagnosis     | ICD-10-CM |
| S04.10XD | Injury of oculomotor nerve, unspecified side, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S04.10XS | Injury of oculomotor nerve, unspecified side, sequela                      | Diagnosis     | ICD-10-CM |
| S04.11   | Injury of oculomotor nerve, right side                                     | Diagnosis     | ICD-10-CM |
| S04.11XA | Injury of oculomotor nerve, right side, initial encounter                  | Diagnosis     | ICD-10-CM |
| S04.11XD | Injury of oculomotor nerve, right side, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S04.11XS | Injury of oculomotor nerve, right side, sequela                            | Diagnosis     | ICD-10-CM |
| S04.12   | Injury of oculomotor nerve, left side                                      | Diagnosis     | ICD-10-CM |
| S04.12XA | Injury of oculomotor nerve, left side, initial encounter                   | Diagnosis     | ICD-10-CM |
| S04.12XD | Injury of oculomotor nerve, left side, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S04.12XS | Injury of oculomotor nerve, left side, sequela                             | Diagnosis     | ICD-10-CM |
| S04.2    | Injury of trochlear nerve  | Diagnosis     | ICD-10-CM |
| S04.20   | Injury of trochlear nerve, unspecified side                                | Diagnosis     | ICD-10-CM |
| S04.20XA | Injury of trochlear nerve, unspecified side, initial encounter             | Diagnosis     | ICD-10-CM |
| S04.20XD | Injury of trochlear nerve, unspecified side, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S04.20XS | Injury of trochlear nerve, unspecified side, sequela                       | Diagnosis     | ICD-10-CM |
| S04.21   | Injury of trochlear nerve, right side                                      | Diagnosis     | ICD-10-CM |
| S04.21XA | Injury of trochlear nerve, right side, initial encounter                   | Diagnosis     | ICD-10-CM |
| S04.21XD | Injury of trochlear nerve, right side, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S04.21XS | Injury of trochlear nerve, right side, sequela                             | Diagnosis     | ICD-10-CM |
| S04.22   | Injury of trochlear nerve, left side                                       | Diagnosis     | ICD-10-CM |
| S04.22XA | Injury of trochlear nerve, left side, initial encounter                    | Diagnosis     | ICD-10-CM |
| S04.22XD | Injury of trochlear nerve, left side, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S04.22XS | Injury of trochlear nerve, left side, sequela                              | Diagnosis     | ICD-10-CM |
| S04.3    | Injury of trigeminal nerve   | Diagnosis     | ICD-10-CM |
| S04.30   | Injury of trigeminal nerve, unspecified side                               | Diagnosis     | ICD-10-CM |
| S04.30XA | Injury of trigeminal nerve, unspecified side, initial encounter            | Diagnosis     | ICD-10-CM |
| S04.30XD | Injury of trigeminal nerve, unspecified side, subsequent encounter         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S04.30XS | Injury of trigeminal nerve, unspecified side, sequela            | Diagnosis     | ICD-10-CM |
| S04.31   | Injury of trigeminal nerve, right side                           | Diagnosis     | ICD-10-CM |
| S04.31XA | Injury of trigeminal nerve, right side, initial encounter        | Diagnosis     | ICD-10-CM |
| S04.31XD | Injury of trigeminal nerve, right side, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S04.31XS | Injury of trigeminal nerve, right side, sequela                  | Diagnosis     | ICD-10-CM |
| S04.32   | Injury of trigeminal nerve, left side                            | Diagnosis     | ICD-10-CM |
| S04.32XA | Injury of trigeminal nerve, left side, initial encounter         | Diagnosis     | ICD-10-CM |
| S04.32XD | Injury of trigeminal nerve, left side, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S04.32XS | Injury of trigeminal nerve, left side, sequela                   | Diagnosis     | ICD-10-CM |
| S04.4    | Injury of abducent nerve   | Diagnosis     | ICD-10-CM |
| S04.40   | Injury of abducent nerve, unspecified side                       | Diagnosis     | ICD-10-CM |
| S04.40XA | Injury of abducent nerve, unspecified side, initial encounter    | Diagnosis     | ICD-10-CM |
| S04.40XD | Injury of abducent nerve, unspecified side, subsequent encounter | Diagnosis     | ICD-10-CM |
| S04.40XS | Injury of abducent nerve, unspecified side, sequela              | Diagnosis     | ICD-10-CM |
| S04.41   | Injury of abducent nerve, right side                             | Diagnosis     | ICD-10-CM |
| S04.41XA | Injury of abducent nerve, right side, initial encounter          | Diagnosis     | ICD-10-CM |
| S04.41XD | Injury of abducent nerve, right side, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S04.41XS | Injury of abducent nerve, right side, sequela                    | Diagnosis     | ICD-10-CM |
| S04.42   | Injury of abducent nerve, left side                              | Diagnosis     | ICD-10-CM |
| S04.42XA | Injury of abducent nerve, left side, initial encounter           | Diagnosis     | ICD-10-CM |
| S04.42XD | Injury of abducent nerve, left side, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S04.42XS | Injury of abducent nerve, left side, sequela                     | Diagnosis     | ICD-10-CM |
| S04.5    | Injury of facial nerve   | Diagnosis     | ICD-10-CM |
| S04.50   | Injury of facial nerve, unspecified side                         | Diagnosis     | ICD-10-CM |
| S04.50XA | Injury of facial nerve, unspecified side, initial encounter      | Diagnosis     | ICD-10-CM |
| S04.50XD | Injury of facial nerve, unspecified side, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S04.50XS | Injury of facial nerve, unspecified side, sequela                | Diagnosis     | ICD-10-CM |
| S04.51   | Injury of facial nerve, right side                               | Diagnosis     | ICD-10-CM |
| S04.51XA | Injury of facial nerve, right side, initial encounter            | Diagnosis     | ICD-10-CM |
| S04.51XD | Injury of facial nerve, right side, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S04.51XS | Injury of facial nerve, right side, sequela                      | Diagnosis     | ICD-10-CM |
| S04.52   | Injury of facial nerve, left side                                | Diagnosis     | ICD-10-CM |
| S04.52XA | Injury of facial nerve, left side, initial encounter             | Diagnosis     | ICD-10-CM |
| S04.52XD | Injury of facial nerve, left side, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S04.52XS | Injury of facial nerve, left side, sequela                       | Diagnosis     | ICD-10-CM |
| S04.6    | Injury of acoustic nerve   | Diagnosis     | ICD-10-CM |
| S04.60   | Injury of acoustic nerve, unspecified side                       | Diagnosis     | ICD-10-CM |
| S04.60XA | Injury of acoustic nerve, unspecified side, initial encounter    | Diagnosis     | ICD-10-CM |
| S04.60XD | Injury of acoustic nerve, unspecified side, subsequent encounter | Diagnosis     | ICD-10-CM |
| S04.60XS | Injury of acoustic nerve, unspecified side, sequela              | Diagnosis     | ICD-10-CM |
| S04.61   | Injury of acoustic nerve, right side                             | Diagnosis     | ICD-10-CM |
| S04.61XA | Injury of acoustic nerve, right side, initial encounter          | Diagnosis     | ICD-10-CM |
| S04.61XD | Injury of acoustic nerve, right side, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S04.61XS | Injury of acoustic nerve, right side, sequela                    | Diagnosis     | ICD-10-CM |
| S04.62   | Injury of acoustic nerve, left side                              | Diagnosis     | ICD-10-CM |
| S04.62XA | Injury of acoustic nerve, left side, initial encounter           | Diagnosis     | ICD-10-CM |
| S04.62XD | Injury of acoustic nerve, left side, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S04.62XS | Injury of acoustic nerve, left side, sequela                     | Diagnosis     | ICD-10-CM |
| S04.7    | Injury of accessory nerve  | Diagnosis     | ICD-10-CM |
| S04.70   | Injury of accessory nerve, unspecified side                      | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S04.70XA | Injury of accessory nerve, unspecified side, initial encounter   | Diagnosis     | ICD-10-CM |
| S04.70XD | Injury of accessory nerve, unspecified side, subsequent encounter                                      | Diagnosis     | ICD-10-CM |
| S04.70XS | Injury of accessory nerve, unspecified side, sequela   | Diagnosis     | ICD-10-CM |
| S04.71   | Injury of accessory nerve, right side  | Diagnosis     | ICD-10-CM |
| S04.71XA | Injury of accessory nerve, right side, initial encounter   | Diagnosis     | ICD-10-CM |
| S04.71XD | Injury of accessory nerve, right side, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S04.71XS | Injury of accessory nerve, right side, sequela   | Diagnosis     | ICD-10-CM |
| S04.72   | Injury of accessory nerve, left side   | Diagnosis     | ICD-10-CM |
| S04.72XA | Injury of accessory nerve, left side, initial encounter  | Diagnosis     | ICD-10-CM |
| S04.72XD | Injury of accessory nerve, left side, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S04.72XS | Injury of accessory nerve, left side, sequela  | Diagnosis     | ICD-10-CM |
| S04.8    | Injury of other cranial nerves   | Diagnosis     | ICD-10-CM |
| S04.81   | Injury of olfactory [1st ] nerve   | Diagnosis     | ICD-10-CM |
| S04.811  | Injury of olfactory [1st ] nerve, right side   | Diagnosis     | ICD-10-CM |
| S04.811A | Injury of olfactory [1st ] nerve, right side, initial encounter  | Diagnosis     | ICD-10-CM |
| S04.811D | Injury of olfactory [1st ] nerve, right side, subsequent encounter                                     | Diagnosis     | ICD-10-CM |
| S04.811S | Injury of olfactory [1st ] nerve, right side, sequela  | Diagnosis     | ICD-10-CM |
| S04.812  | Injury of olfactory [1st ] nerve, left side  | Diagnosis     | ICD-10-CM |
| S04.812A | Injury of olfactory [1st ] nerve, left side, initial encounter   | Diagnosis     | ICD-10-CM |
| S04.812D | Injury of olfactory [1st ] nerve, left side, subsequent encounter                                      | Diagnosis     | ICD-10-CM |
| S04.812S | Injury of olfactory [1st ] nerve, left side, sequela   | Diagnosis     | ICD-10-CM |
| S04.819  | Injury of olfactory [1st ] nerve, unspecified side   | Diagnosis     | ICD-10-CM |
| S04.819A | Injury of olfactory [1st ] nerve, unspecified side, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S04.819D | Injury of olfactory [1st ] nerve, unspecified side, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S04.819S | Injury of olfactory [1st ] nerve, unspecified side, sequela  | Diagnosis     | ICD-10-CM |
| S04.89   | Injury of other cranial nerves   | Diagnosis     | ICD-10-CM |
| S04.891  | Injury of other cranial nerves, right side   | Diagnosis     | ICD-10-CM |
| S04.891A | Injury of other cranial nerves, right side, initial encounter  | Diagnosis     | ICD-10-CM |
| S04.891D | Injury of other cranial nerves, right side, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S04.891S | Injury of other cranial nerves, right side, sequela  | Diagnosis     | ICD-10-CM |
| S04.892  | Injury of other cranial nerves, left side  | Diagnosis     | ICD-10-CM |
| S04.892A | Injury of other cranial nerves, left side, initial encounter   | Diagnosis     | ICD-10-CM |
| S04.892D | Injury of other cranial nerves, left side, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S04.892S | Injury of other cranial nerves, left side, sequela   | Diagnosis     | ICD-10-CM |
| S04.899  | Injury of other cranial nerves, unspecified side   | Diagnosis     | ICD-10-CM |
| S04.899A | Injury of other cranial nerves, unspecified side, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S04.899D | Injury of other cranial nerves, unspecified side, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S04.899S | Injury of other cranial nerves, unspecified side, sequela  | Diagnosis     | ICD-10-CM |
| S04.9    | Injury of unspecified cranial nerve  | Diagnosis     | ICD-10-CM |
| S04.9XXA | Injury of unspecified cranial nerve, initial encounter   | Diagnosis     | ICD-10-CM |
| S04.9XXD | Injury of unspecified cranial nerve, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S04.9XXS | Injury of unspecified cranial nerve, sequela   | Diagnosis     | ICD-10-CM |
| S05      | Injury of eye and orbit  | Diagnosis     | ICD-10-CM |
| S05.0    | Injury of conjunctiva and corneal abrasion without foreign body  | Diagnosis     | ICD-10-CM |
| S05.00   | Injury of conjunctiva and corneal abrasion without foreign body, unspecified eye                       | Diagnosis     | ICD-10-CM |
| S05.00XA | Injury of conjunctiva and corneal abrasion without foreign body, unspecified eye, initial encounter    | Diagnosis     | ICD-10-CM |
| S05.00XD | Injury of conjunctiva and corneal abrasion without foreign body, unspecified eye, subsequent encounter | Diagnosis     | ICD-10-CM |
| S05.00XS | Injury of conjunctiva and corneal abrasion without foreign body, unspecified eye, sequela              | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S05.01   | Injury of conjunctiva and corneal abrasion without foreign body, right eye                                       | Diagnosis     | ICD-10-CM |
| S05.01XA | Injury of conjunctiva and corneal abrasion without foreign body, right eye, initial encounter                    | Diagnosis     | ICD-10-CM |
| S05.01XD | Injury of conjunctiva and corneal abrasion without foreign body, right eye, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S05.01XS | Injury of conjunctiva and corneal abrasion without foreign body, right eye, sequela                              | Diagnosis     | ICD-10-CM |
| S05.02   | Injury of conjunctiva and corneal abrasion without foreign body, left eye  | Diagnosis     | ICD-10-CM |
| S05.02XA | Injury of conjunctiva and corneal abrasion without foreign body, left eye, initial encounter                     | Diagnosis     | ICD-10-CM |
| S05.02XD | Injury of conjunctiva and corneal abrasion without foreign body, left eye, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S05.02XS | Injury of conjunctiva and corneal abrasion without foreign body, left eye, sequela                               | Diagnosis     | ICD-10-CM |
| S05.1    | Contusion of eyeball and orbital tissues   | Diagnosis     | ICD-10-CM |
| S05.10   | Contusion of eyeball and orbital tissues, unspecified eye  | Diagnosis     | ICD-10-CM |
| S05.10XA | Contusion of eyeball and orbital tissues, unspecified eye, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S05.10XD | Contusion of eyeball and orbital tissues, unspecified eye, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S05.10XS | Contusion of eyeball and orbital tissues, unspecified eye, sequela   | Diagnosis     | ICD-10-CM |
| S05.11   | Contusion of eyeball and orbital tissues, right eye  | Diagnosis     | ICD-10-CM |
| S05.11XA | Contusion of eyeball and orbital tissues, right eye, initial encounter   | Diagnosis     | ICD-10-CM |
| S05.11XD | Contusion of eyeball and orbital tissues, right eye, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S05.11XS | Contusion of eyeball and orbital tissues, right eye, sequela   | Diagnosis     | ICD-10-CM |
| S05.12   | Contusion of eyeball and orbital tissues, left eye   | Diagnosis     | ICD-10-CM |
| S05.12XA | Contusion of eyeball and orbital tissues, left eye, initial encounter  | Diagnosis     | ICD-10-CM |
| S05.12XD | Contusion of eyeball and orbital tissues, left eye, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S05.12XS | Contusion of eyeball and orbital tissues, left eye, sequela  | Diagnosis     | ICD-10-CM |
| S05.2    | Ocular laceration and rupture with prolapse or loss of intraocular tissue  | Diagnosis     | ICD-10-CM |
| S05.20   | Ocular laceration and rupture with prolapse or loss of intraocular tissue, unspecified eye                       | Diagnosis     | ICD-10-CM |
| S05.20XA | Ocular laceration and rupture with prolapse or loss of intraocular tissue, unspecified eye, initial encounter    | Diagnosis     | ICD-10-CM |
| S05.20XD | Ocular laceration and rupture with prolapse or loss of intraocular tissue, unspecified eye, subsequent encounter | Diagnosis     | ICD-10-CM |
| S05.20XS | Ocular laceration and rupture with prolapse or loss of intraocular tissue, unspecified eye, sequela              | Diagnosis     | ICD-10-CM |
| S05.21   | Ocular laceration and rupture with prolapse or loss of intraocular tissue, right eye                             | Diagnosis     | ICD-10-CM |
| S05.21XA | Ocular laceration and rupture with prolapse or loss of intraocular tissue, right eye, initial encounter          | Diagnosis     | ICD-10-CM |
| S05.21XD | Ocular laceration and rupture with prolapse or loss of intraocular tissue, right eye, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S05.21XS | Ocular laceration and rupture with prolapse or loss of intraocular tissue, right eye, sequela                    | Diagnosis     | ICD-10-CM |
| S05.22   | Ocular laceration and rupture with prolapse or loss of intraocular tissue, left eye                              | Diagnosis     | ICD-10-CM |
| S05.22XA | Ocular laceration and rupture with prolapse or loss of intraocular tissue, left eye, initial encounter           | Diagnosis     | ICD-10-CM |
| S05.22XD | Ocular laceration and rupture with prolapse or loss of intraocular tissue, left eye, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S05.22XS | Ocular laceration and rupture with prolapse or loss of intraocular tissue, left eye, sequela                     | Diagnosis     | ICD-10-CM |
| S05.3    | Ocular laceration without prolapse or loss of intraocular tissue   | Diagnosis     | ICD-10-CM |
| S05.30   | Ocular laceration without prolapse or loss of intraocular tissue, unspecified eye                                | Diagnosis     | ICD-10-CM |
| S05.30XA | Ocular laceration without prolapse or loss of intraocular tissue, unspecified eye, initial encounter             | Diagnosis     | ICD-10-CM |
| S05.30XD | Ocular laceration without prolapse or loss of intraocular tissue, unspecified eye, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S05.30XS | Ocular laceration without prolapse or loss of intraocular tissue, unspecified eye, sequela                       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S05.31   | Ocular laceration without prolapse or loss of intraocular tissue, right eye                       | Diagnosis     | ICD-10-CM |
| S05.31XA | Ocular laceration without prolapse or loss of intraocular tissue, right eye, initial encounter    | Diagnosis     | ICD-10-CM |
| S05.31XD | Ocular laceration without prolapse or loss of intraocular tissue, right eye, subsequent encounter | Diagnosis     | ICD-10-CM |
| S05.31XS | Ocular laceration without prolapse or loss of intraocular tissue, right eye, sequela              | Diagnosis     | ICD-10-CM |
| S05.32   | Ocular laceration without prolapse or loss of intraocular tissue, left eye                        | Diagnosis     | ICD-10-CM |
| S05.32XA | Ocular laceration without prolapse or loss of intraocular tissue, left eye, initial encounter     | Diagnosis     | ICD-10-CM |
| S05.32XD | Ocular laceration without prolapse or loss of intraocular tissue, left eye, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S05.32XS | Ocular laceration without prolapse or loss of intraocular tissue, left eye, sequela               | Diagnosis     | ICD-10-CM |
| S05.4    | Penetrating wound of orbit with or without foreign body   | Diagnosis     | ICD-10-CM |
| S05.40   | Penetrating wound of orbit with or without foreign body, unspecified eye                          | Diagnosis     | ICD-10-CM |
| S05.40XA | Penetrating wound of orbit with or without foreign body, unspecified eye, initial encounter       | Diagnosis     | ICD-10-CM |
| S05.40XD | Penetrating wound of orbit with or without foreign body, unspecified eye, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S05.40XS | Penetrating wound of orbit with or without foreign body, unspecified eye, sequela                 | Diagnosis     | ICD-10-CM |
| S05.41   | Penetrating wound of orbit with or without foreign body, right eye                                | Diagnosis     | ICD-10-CM |
| S05.41XA | Penetrating wound of orbit with or without foreign body, right eye, initial encounter             | Diagnosis     | ICD-10-CM |
| S05.41XD | Penetrating wound of orbit with or without foreign body, right eye, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S05.41XS | Penetrating wound of orbit with or without foreign body, right eye, sequela                       | Diagnosis     | ICD-10-CM |
| S05.42   | Penetrating wound of orbit with or without foreign body, left eye                                 | Diagnosis     | ICD-10-CM |
| S05.42XA | Penetrating wound of orbit with or without foreign body, left eye, initial encounter              | Diagnosis     | ICD-10-CM |
| S05.42XD | Penetrating wound of orbit with or without foreign body, left eye, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S05.42XS | Penetrating wound of orbit with or without foreign body, left eye, sequela                        | Diagnosis     | ICD-10-CM |
| S05.5    | Penetrating wound with foreign body of eyeball  | Diagnosis     | ICD-10-CM |
| S05.50   | Penetrating wound with foreign body of unspecified eyeball  | Diagnosis     | ICD-10-CM |
| S05.50XA | Penetrating wound with foreign body of unspecified eyeball, initial encounter                     | Diagnosis     | ICD-10-CM |
| S05.50XD | Penetrating wound with foreign body of unspecified eyeball, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S05.50XS | Penetrating wound with foreign body of unspecified eyeball, sequela                               | Diagnosis     | ICD-10-CM |
| S05.51   | Penetrating wound with foreign body of right eyeball  | Diagnosis     | ICD-10-CM |
| S05.51XA | Penetrating wound with foreign body of right eyeball, initial encounter                           | Diagnosis     | ICD-10-CM |
| S05.51XD | Penetrating wound with foreign body of right eyeball, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S05.51XS | Penetrating wound with foreign body of right eyeball, sequela                                     | Diagnosis     | ICD-10-CM |
| S05.52   | Penetrating wound with foreign body of left eyeball   | Diagnosis     | ICD-10-CM |
| S05.52XA | Penetrating wound with foreign body of left eyeball, initial encounter                            | Diagnosis     | ICD-10-CM |
| S05.52XD | Penetrating wound with foreign body of left eyeball, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S05.52XS | Penetrating wound with foreign body of left eyeball, sequela                                      | Diagnosis     | ICD-10-CM |
| S05.6    | Penetrating wound without foreign body of eyeball   | Diagnosis     | ICD-10-CM |
| S05.60   | Penetrating wound without foreign body of unspecified eyeball                                     | Diagnosis     | ICD-10-CM |
| S05.60XA | Penetrating wound without foreign body of unspecified eyeball, initial encounter                  | Diagnosis     | ICD-10-CM |
| S05.60XD | Penetrating wound without foreign body of unspecified eyeball, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S05.60XS | Penetrating wound without foreign body of unspecified eyeball, sequela                            | Diagnosis     | ICD-10-CM |
| S05.61   | Penetrating wound without foreign body of right eyeball   | Diagnosis     | ICD-10-CM |
| S05.61XA | Penetrating wound without foreign body of right eyeball, initial encounter                        | Diagnosis     | ICD-10-CM |
| S05.61XD | Penetrating wound without foreign body of right eyeball, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S05.61XS | Penetrating wound without foreign body of right eyeball, sequela                                  | Diagnosis     | ICD-10-CM |
| S05.62   | Penetrating wound without foreign body of left eyeball  | Diagnosis     | ICD-10-CM |
| S05.62XA | Penetrating wound without foreign body of left eyeball, initial encounter                         | Diagnosis     | ICD-10-CM |
| S05.62XD | Penetrating wound without foreign body of left eyeball, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S05.62XS | Penetrating wound without foreign body of left eyeball, sequela                                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S05.7    | Avulsion of eye   | Diagnosis     | ICD-10-CM |
| S05.70   | Avulsion of unspecified eye   | Diagnosis     | ICD-10-CM |
| S05.70XA | Avulsion of unspecified eye, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S05.70XD | Avulsion of unspecified eye, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S05.70XS | Avulsion of unspecified eye, sequela  | Diagnosis     | ICD-10-CM |
| S05.71   | Avulsion of right eye   | Diagnosis     | ICD-10-CM |
| S05.71XA | Avulsion of right eye, initial encounter  | Diagnosis     | ICD-10-CM |
| S05.71XD | Avulsion of right eye, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S05.71XS | Avulsion of right eye, sequela  | Diagnosis     | ICD-10-CM |
| S05.72   | Avulsion of left eye  | Diagnosis     | ICD-10-CM |
| S05.72XA | Avulsion of left eye, initial encounter   | Diagnosis     | ICD-10-CM |
| S05.72XD | Avulsion of left eye, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S05.72XS | Avulsion of left eye, sequela   | Diagnosis     | ICD-10-CM |
| S05.8    | Other injuries of eye and orbit   | Diagnosis     | ICD-10-CM |
| S05.8X   | Other injuries of eye and orbit   | Diagnosis     | ICD-10-CM |
| S05.8X1  | Other injuries of right eye and orbit   | Diagnosis     | ICD-10-CM |
| S05.8X1A | Other injuries of right eye and orbit, initial encounter                          | Diagnosis     | ICD-10-CM |
| S05.8X1D | Other injuries of right eye and orbit, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S05.8X1S | Other injuries of right eye and orbit, sequela                                    | Diagnosis     | ICD-10-CM |
| S05.8X2  | Other injuries of left eye and orbit  | Diagnosis     | ICD-10-CM |
| S05.8X2A | Other injuries of left eye and orbit, initial encounter                           | Diagnosis     | ICD-10-CM |
| S05.8X2D | Other injuries of left eye and orbit, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S05.8X2S | Other injuries of left eye and orbit, sequela                                     | Diagnosis     | ICD-10-CM |
| S05.8X9  | Other injuries of unspecified eye and orbit                                       | Diagnosis     | ICD-10-CM |
| S05.8X9A | Other injuries of unspecified eye and orbit, initial encounter                    | Diagnosis     | ICD-10-CM |
| S05.8X9D | Other injuries of unspecified eye and orbit, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S05.8X9S | Other injuries of unspecified eye and orbit, sequela                              | Diagnosis     | ICD-10-CM |
| S05.9    | Unspecified injury of eye and orbit   | Diagnosis     | ICD-10-CM |
| S05.90   | Unspecified injury of unspecified eye and orbit                                   | Diagnosis     | ICD-10-CM |
| S05.90XA | Unspecified injury of unspecified eye and orbit, initial encounter                | Diagnosis     | ICD-10-CM |
| S05.90XD | Unspecified injury of unspecified eye and orbit, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S05.90XS | Unspecified injury of unspecified eye and orbit, sequela                          | Diagnosis     | ICD-10-CM |
| S05.91   | Unspecified injury of right eye and orbit   | Diagnosis     | ICD-10-CM |
| S05.91XA | Unspecified injury of right eye and orbit, initial encounter                      | Diagnosis     | ICD-10-CM |
| S05.91XD | Unspecified injury of right eye and orbit, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S05.91XS | Unspecified injury of right eye and orbit, sequela                                | Diagnosis     | ICD-10-CM |
| S05.92   | Unspecified injury of left eye and orbit  | Diagnosis     | ICD-10-CM |
| S05.92XA | Unspecified injury of left eye and orbit, initial encounter                       | Diagnosis     | ICD-10-CM |
| S05.92XD | Unspecified injury of left eye and orbit, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S05.92XS | Unspecified injury of left eye and orbit, sequela                                 | Diagnosis     | ICD-10-CM |
| S06      | Intracranial injury   | Diagnosis     | ICD-10-CM |
| S06.0    | Concussion  | Diagnosis     | ICD-10-CM |
| S06.0X   | Concussion  | Diagnosis     | ICD-10-CM |
| S06.0X0  | Concussion without loss of consciousness  | Diagnosis     | ICD-10-CM |
| S06.0X0A | Concussion without loss of consciousness, initial encounter                       | Diagnosis     | ICD-10-CM |
| S06.0X0D | Concussion without loss of consciousness, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S06.0X0S | Concussion without loss of consciousness, sequela                                 | Diagnosis     | ICD-10-CM |
| S06.0X1  | Concussion with loss of consciousness of 30 minutes or less                       | Diagnosis     | ICD-10-CM |
| S06.0X1A | Concussion with loss of consciousness of 30 minutes or less, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.0X1D | Concussion with loss of consciousness of 30 minutes or less, subsequent encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S06.0X1S | Concussion with loss of consciousness of 30 minutes or less, sequela  | Diagnosis     | ICD-10-CM |
| S06.0X2  | Concussion with loss of consciousness of 31 minutes to 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.0X2A | Concussion with loss of consciousness of 31 minutes to 59 minutes, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.0X2D | Concussion with loss of consciousness of 31 minutes to 59 minutes, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.0X2S | Concussion with loss of consciousness of 31 minutes to 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.0X3  | Concussion with loss of consciousness of 1 hour to 5 hours 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.0X3A | Concussion with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.0X3D | Concussion with loss of consciousness of 1 hour to 5 hours 59 minutes, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.0X3S | Concussion with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.0X4  | Concussion with loss of consciousness of 6 hours to 24 hours  | Diagnosis     | ICD-10-CM |
| S06.0X4A | Concussion with loss of consciousness of 6 hours to 24 hours, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.0X4D | Concussion with loss of consciousness of 6 hours to 24 hours, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.0X4S | Concussion with loss of consciousness of 6 hours to 24 hours, sequela   | Diagnosis     | ICD-10-CM |
| S06.0X5  | Concussion with loss of consciousness greater than 24 hours with return to pre-existing conscious level   | Diagnosis     | ICD-10-CM |
| S06.0X5A | Concussion with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter                              | Diagnosis     | ICD-10-CM |
| S06.0X5D | Concussion with loss of consciousness greater than 24 hours with return to pre-existing conscious level, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S06.0X5S | Concussion with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela  | Diagnosis     | ICD-10-CM |
| S06.0X6  | Concussion with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving                       | Diagnosis     | ICD-10-CM |
| S06.0X6A | Concussion with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.0X6D | Concussion with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.0X6S | Concussion with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela              | Diagnosis     | ICD-10-CM |
| S06.0X7  | Concussion with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness                                   | Diagnosis     | ICD-10-CM |
| S06.0X7A | Concussion with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter                | Diagnosis     | ICD-10-CM |
| S06.0X7D | Concussion with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S06.0X7S | Concussion with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela                          | Diagnosis     | ICD-10-CM |
| S06.0X8  | Concussion with loss of consciousness of any duration with death due to other cause prior to regaining consciousness                                    | Diagnosis     | ICD-10-CM |
| S06.0X8A | Concussion with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter                 | Diagnosis     | ICD-10-CM |
| S06.0X8D | Concussion with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S06.0X8S | Concussion with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela                           | Diagnosis     | ICD-10-CM |
| S06.0X9  | Concussion with loss of consciousness of unspecified duration   | Diagnosis     | ICD-10-CM |
| S06.0X9A | Concussion with loss of consciousness of unspecified duration, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.0X9D | Concussion with loss of consciousness of unspecified duration, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.0X9S | Concussion with loss of consciousness of unspecified duration, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S06.0XA  | Concussion with loss of consciousness status unknown  | Diagnosis     | ICD-10-CM |
| S06.0XAA | Concussion with loss of consciousness status unknown, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.0XAD | Concussion with loss of consciousness status unknown, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.0XAS | Concussion with loss of consciousness status unknown, sequela   | Diagnosis     | ICD-10-CM |
| S06.1    | Traumatic cerebral edema  | Diagnosis     | ICD-10-CM |
| S06.1X   | Traumatic cerebral edema  | Diagnosis     | ICD-10-CM |
| S06.1X0  | Traumatic cerebral edema without loss of consciousness  | Diagnosis     | ICD-10-CM |
| S06.1X0A | Traumatic cerebral edema without loss of consciousness, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.1X0D | Traumatic cerebral edema without loss of consciousness, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.1X0S | Traumatic cerebral edema without loss of consciousness, sequela   | Diagnosis     | ICD-10-CM |
| S06.1X1  | Traumatic cerebral edema with loss of consciousness of 30 minutes or less   | Diagnosis     | ICD-10-CM |
| S06.1X1A | Traumatic cerebral edema with loss of consciousness of 30 minutes or less, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.1X1D | Traumatic cerebral edema with loss of consciousness of 30 minutes or less, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.1X1S | Traumatic cerebral edema with loss of consciousness of 30 minutes or less, sequela  | Diagnosis     | ICD-10-CM |
| S06.1X2  | Traumatic cerebral edema with loss of consciousness of 31 minutes to 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.1X2A | Traumatic cerebral edema with loss of consciousness of 31 minutes to 59 minutes, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.1X2D | Traumatic cerebral edema with loss of consciousness of 31 minutes to 59 minutes, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.1X2S | Traumatic cerebral edema with loss of consciousness of 31 minutes to 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.1X3  | Traumatic cerebral edema with loss of consciousness of 1 hour to 5 hours 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.1X3A | Traumatic cerebral edema with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.1X3D | Traumatic cerebral edema with loss of consciousness of 1 hour to 5 hours 59 minutes, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.1X3S | Traumatic cerebral edema with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.1X4  | Traumatic cerebral edema with loss of consciousness of 6 hours to 24 hours  | Diagnosis     | ICD-10-CM |
| S06.1X4A | Traumatic cerebral edema with loss of consciousness of 6 hours to 24 hours, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.1X4D | Traumatic cerebral edema with loss of consciousness of 6 hours to 24 hours, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.1X4S | Traumatic cerebral edema with loss of consciousness of 6 hours to 24 hours, sequela   | Diagnosis     | ICD-10-CM |
| S06.1X5  | Traumatic cerebral edema with loss of consciousness greater than 24 hours with return to pre-existing conscious level   | Diagnosis     | ICD-10-CM |
| S06.1X5A | Traumatic cerebral edema with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter                              | Diagnosis     | ICD-10-CM |
| S06.1X5D | Traumatic cerebral edema with loss of consciousness greater than 24 hours with return to pre-existing conscious level, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S06.1X5S | Traumatic cerebral edema with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela  | Diagnosis     | ICD-10-CM |
| S06.1X6  | Traumatic cerebral edema with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving                       | Diagnosis     | ICD-10-CM |
| S06.1X6A | Traumatic cerebral edema with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.1X6D | Traumatic cerebral edema with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, subsequent encounter | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S06.1X6S | Traumatic cerebral edema with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela  | Diagnosis     | ICD-10-CM |
| S06.1X7  | Traumatic cerebral edema with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness                       | Diagnosis     | ICD-10-CM |
| S06.1X7A | Traumatic cerebral edema with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.1X7D | Traumatic cerebral edema with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.1X7S | Traumatic cerebral edema with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela              | Diagnosis     | ICD-10-CM |
| S06.1X8  | Traumatic cerebral edema with loss of consciousness of any duration with death due to other cause prior to regaining consciousness                        | Diagnosis     | ICD-10-CM |
| S06.1X8A | Traumatic cerebral edema with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter     | Diagnosis     | ICD-10-CM |
| S06.1X8D | Traumatic cerebral edema with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.1X8S | Traumatic cerebral edema with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela               | Diagnosis     | ICD-10-CM |
| S06.1X9  | Traumatic cerebral edema with loss of consciousness of unspecified duration   | Diagnosis     | ICD-10-CM |
| S06.1X9A | Traumatic cerebral edema with loss of consciousness of unspecified duration, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.1X9D | Traumatic cerebral edema with loss of consciousness of unspecified duration, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.1X9S | Traumatic cerebral edema with loss of consciousness of unspecified duration, sequela  | Diagnosis     | ICD-10-CM |
| S06.1XA  | Traumatic cerebral edema with loss of consciousness status unknown  | Diagnosis     | ICD-10-CM |
| S06.1XAA | Traumatic cerebral edema with loss of consciousness status unknown, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.1XAD | Traumatic cerebral edema with loss of consciousness status unknown, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.1XAS | Traumatic cerebral edema with loss of consciousness status unknown, sequela   | Diagnosis     | ICD-10-CM |
| S06.2    | Diffuse traumatic brain injury  | Diagnosis     | ICD-10-CM |
| S06.2X   | Diffuse traumatic brain injury  | Diagnosis     | ICD-10-CM |
| S06.2X0  | Diffuse traumatic brain injury without loss of consciousness  | Diagnosis     | ICD-10-CM |
| S06.2X0A | Diffuse traumatic brain injury without loss of consciousness, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.2X0D | Diffuse traumatic brain injury without loss of consciousness, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.2X0S | Diffuse traumatic brain injury without loss of consciousness, sequela   | Diagnosis     | ICD-10-CM |
| S06.2X1  | Diffuse traumatic brain injury with loss of consciousness of 30 minutes or less   | Diagnosis     | ICD-10-CM |
| S06.2X1A | Diffuse traumatic brain injury with loss of consciousness of 30 minutes or less, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.2X1D | Diffuse traumatic brain injury with loss of consciousness of 30 minutes or less, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.2X1S | Diffuse traumatic brain injury with loss of consciousness of 30 minutes or less, sequela  | Diagnosis     | ICD-10-CM |
| S06.2X2  | Diffuse traumatic brain injury with loss of consciousness of 31 minutes to 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.2X2A | Diffuse traumatic brain injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.2X2D | Diffuse traumatic brain injury with loss of consciousness of 31 minutes to 59 minutes, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.2X2S | Diffuse traumatic brain injury with loss of consciousness of 31 minutes to 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.2X3  | Diffuse traumatic brain injury with loss of consciousness of 1 hour to 5 hours 59 minutes   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S06.2X3A | Diffuse traumatic brain injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.2X3D | Diffuse traumatic brain injury with loss of consciousness of 1 hour to 5 hours 59 minutes, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.2X3S | Diffuse traumatic brain injury with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.2X4  | Diffuse traumatic brain injury with loss of consciousness of 6 hours to 24 hours  | Diagnosis     | ICD-10-CM |
| S06.2X4A | Diffuse traumatic brain injury with loss of consciousness of 6 hours to 24 hours, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.2X4D | Diffuse traumatic brain injury with loss of consciousness of 6 hours to 24 hours, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.2X4S | Diffuse traumatic brain injury with loss of consciousness of 6 hours to 24 hours, sequela   | Diagnosis     | ICD-10-CM |
| S06.2X5  | Diffuse traumatic brain injury with loss of consciousness greater than 24 hours with return to pre-existing conscious levels  | Diagnosis     | ICD-10-CM |
| S06.2X5A | Diffuse traumatic brain injury with loss of consciousness greater than 24 hours with return to pre-existing conscious levels, initial encounter                             | Diagnosis     | ICD-10-CM |
| S06.2X5D | Diffuse traumatic brain injury with loss of consciousness greater than 24 hours with return to pre-existing conscious levels, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S06.2X5S | Diffuse traumatic brain injury with loss of consciousness greater than 24 hours with return to pre-existing conscious levels, sequela                                       | Diagnosis     | ICD-10-CM |
| S06.2X6  | Diffuse traumatic brain injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving                       | Diagnosis     | ICD-10-CM |
| S06.2X6A | Diffuse traumatic brain injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.2X6D | Diffuse traumatic brain injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.2X6S | Diffuse traumatic brain injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela              | Diagnosis     | ICD-10-CM |
| S06.2X7  | Diffuse traumatic brain injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness                                   | Diagnosis     | ICD-10-CM |
| S06.2X7A | Diffuse traumatic brain injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter                | Diagnosis     | ICD-10-CM |
| S06.2X7D | Diffuse traumatic brain injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S06.2X7S | Diffuse traumatic brain injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela                          | Diagnosis     | ICD-10-CM |
| S06.2X8  | Diffuse traumatic brain injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness                                    | Diagnosis     | ICD-10-CM |
| S06.2X8A | Diffuse traumatic brain injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter                 | Diagnosis     | ICD-10-CM |
| S06.2X8D | Diffuse traumatic brain injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S06.2X8S | Diffuse traumatic brain injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela                           | Diagnosis     | ICD-10-CM |
| S06.2X9  | Diffuse traumatic brain injury with loss of consciousness of unspecified duration   | Diagnosis     | ICD-10-CM |
| S06.2X9A | Diffuse traumatic brain injury with loss of consciousness of unspecified duration, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.2X9D | Diffuse traumatic brain injury with loss of consciousness of unspecified duration, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.2X9S | Diffuse traumatic brain injury with loss of consciousness of unspecified duration, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S06.2XA  | Diffuse traumatic brain injury with loss of consciousness status unknown  | Diagnosis     | ICD-10-CM |
| S06.2XAA | Diffuse traumatic brain injury with loss of consciousness status unknown, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.2XAD | Diffuse traumatic brain injury with loss of consciousness status unknown, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.2XAS | Diffuse traumatic brain injury with loss of consciousness status unknown, sequela   | Diagnosis     | ICD-10-CM |
| S06.3    | Focal traumatic brain injury  | Diagnosis     | ICD-10-CM |
| S06.30   | Unspecified focal traumatic brain injury  | Diagnosis     | ICD-10-CM |
| S06.300  | Unspecified focal traumatic brain injury without loss of consciousness  | Diagnosis     | ICD-10-CM |
| S06.300A | Unspecified focal traumatic brain injury without loss of consciousness, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.300D | Unspecified focal traumatic brain injury without loss of consciousness, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.300S | Unspecified focal traumatic brain injury without loss of consciousness, sequela   | Diagnosis     | ICD-10-CM |
| S06.301  | Unspecified focal traumatic brain injury with loss of consciousness of 30 minutes or less   | Diagnosis     | ICD-10-CM |
| S06.301A | Unspecified focal traumatic brain injury with loss of consciousness of 30 minutes or less, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.301D | Unspecified focal traumatic brain injury with loss of consciousness of 30 minutes or less, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.301S | Unspecified focal traumatic brain injury with loss of consciousness of 30 minutes or less, sequela  | Diagnosis     | ICD-10-CM |
| S06.302  | Unspecified focal traumatic brain injury with loss of consciousness of 31 minutes to 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.302A | Unspecified focal traumatic brain injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.302D | Unspecified focal traumatic brain injury with loss of consciousness of 31 minutes to 59 minutes, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S06.302S | Unspecified focal traumatic brain injury with loss of consciousness of 31 minutes to 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.303  | Unspecified focal traumatic brain injury with loss of consciousness of 1 hour to 5 hours 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.303A | Unspecified focal traumatic brain injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter                                      | Diagnosis     | ICD-10-CM |
| S06.303D | Unspecified focal traumatic brain injury with loss of consciousness of 1 hour to 5 hours 59 minutes, subsequent encounter                                   | Diagnosis     | ICD-10-CM |
| S06.303S | Unspecified focal traumatic brain injury with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.304  | Unspecified focal traumatic brain injury with loss of consciousness of 6 hours to 24 hours  | Diagnosis     | ICD-10-CM |
| S06.304A | Unspecified focal traumatic brain injury with loss of consciousness of 6 hours to 24 hours, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.304D | Unspecified focal traumatic brain injury with loss of consciousness of 6 hours to 24 hours, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.304S | Unspecified focal traumatic brain injury with loss of consciousness of 6 hours to 24 hours, sequela   | Diagnosis     | ICD-10-CM |
| S06.305  | Unspecified focal traumatic brain injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level                       | Diagnosis     | ICD-10-CM |
| S06.305A | Unspecified focal traumatic brain injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.305D | Unspecified focal traumatic brain injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.305S | Unspecified focal traumatic brain injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S06.306  | Unspecified focal traumatic brain injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving                       | Diagnosis     | ICD-10-CM |
| S06.306A | Unspecified focal traumatic brain injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.306D | Unspecified focal traumatic brain injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.306S | Unspecified focal traumatic brain injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela              | Diagnosis     | ICD-10-CM |
| S06.307  | Unspecified focal traumatic brain injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness                                   | Diagnosis     | ICD-10-CM |
| S06.307A | Unspecified focal traumatic brain injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter                | Diagnosis     | ICD-10-CM |
| S06.307D | Unspecified focal traumatic brain injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S06.307S | Unspecified focal traumatic brain injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela                          | Diagnosis     | ICD-10-CM |
| S06.308  | Unspecified focal traumatic brain injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness                                    | Diagnosis     | ICD-10-CM |
| S06.308A | Unspecified focal traumatic brain injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter                 | Diagnosis     | ICD-10-CM |
| S06.308D | Unspecified focal traumatic brain injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S06.308S | Unspecified focal traumatic brain injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela                           | Diagnosis     | ICD-10-CM |
| S06.309  | Unspecified focal traumatic brain injury with loss of consciousness of unspecified duration   | Diagnosis     | ICD-10-CM |
| S06.309A | Unspecified focal traumatic brain injury with loss of consciousness of unspecified duration, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.309D | Unspecified focal traumatic brain injury with loss of consciousness of unspecified duration, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.309S | Unspecified focal traumatic brain injury with loss of consciousness of unspecified duration, sequela  | Diagnosis     | ICD-10-CM |
| S06.30A  | Unspecified focal traumatic brain injury with loss of consciousness status unknown  | Diagnosis     | ICD-10-CM |
| S06.30AA | Unspecified focal traumatic brain injury with loss of consciousness status unknown, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.30AD | Unspecified focal traumatic brain injury with loss of consciousness status unknown, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.30AS | Unspecified focal traumatic brain injury with loss of consciousness status unknown, sequela   | Diagnosis     | ICD-10-CM |
| S06.31   | Contusion and laceration of right cerebrum  | Diagnosis     | ICD-10-CM |
| S06.310  | Contusion and laceration of right cerebrum without loss of consciousness  | Diagnosis     | ICD-10-CM |
| S06.310A | Contusion and laceration of right cerebrum without loss of consciousness, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.310D | Contusion and laceration of right cerebrum without loss of consciousness, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.310S | Contusion and laceration of right cerebrum without loss of consciousness, sequela   | Diagnosis     | ICD-10-CM |
| S06.311  | Contusion and laceration of right cerebrum with loss of consciousness of 30 minutes or less   | Diagnosis     | ICD-10-CM |
| S06.311A | Contusion and laceration of right cerebrum with loss of consciousness of 30 minutes or less, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.311D | Contusion and laceration of right cerebrum with loss of consciousness of 30 minutes or less, subsequent encounter   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S06.311S | Contusion and laceration of right cerebrum with loss of consciousness of 30 minutes or less, sequela  | Diagnosis     | ICD-10-CM |
| S06.312  | Contusion and laceration of right cerebrum with loss of consciousness of 31 minutes to 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.312A | Contusion and laceration of right cerebrum with loss of consciousness of 31 minutes to 59 minutes, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.312D | Contusion and laceration of right cerebrum with loss of consciousness of 31 minutes to 59 minutes, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.312S | Contusion and laceration of right cerebrum with loss of consciousness of 31 minutes to 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.313  | Contusion and laceration of right cerebrum with loss of consciousness of 1 hour to 5 hours 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.313A | Contusion and laceration of right cerebrum with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.313D | Contusion and laceration of right cerebrum with loss of consciousness of 1 hour to 5 hours 59 minutes, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.313S | Contusion and laceration of right cerebrum with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.314  | Contusion and laceration of right cerebrum with loss of consciousness of 6 hours to 24 hours  | Diagnosis     | ICD-10-CM |
| S06.314A | Contusion and laceration of right cerebrum with loss of consciousness of 6 hours to 24 hours, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.314D | Contusion and laceration of right cerebrum with loss of consciousness of 6 hours to 24 hours, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.314S | Contusion and laceration of right cerebrum with loss of consciousness of 6 hours to 24 hours, sequela   | Diagnosis     | ICD-10-CM |
| S06.315  | Contusion and laceration of right cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level   | Diagnosis     | ICD-10-CM |
| S06.315A | Contusion and laceration of right cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter                              | Diagnosis     | ICD-10-CM |
| S06.315D | Contusion and laceration of right cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S06.315S | Contusion and laceration of right cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela  | Diagnosis     | ICD-10-CM |
| S06.316  | Contusion and laceration of right cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving                       | Diagnosis     | ICD-10-CM |
| S06.316A | Contusion and laceration of right cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.316D | Contusion and laceration of right cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.316S | Contusion and laceration of right cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela              | Diagnosis     | ICD-10-CM |
| S06.317  | Contusion and laceration of right cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness                                   | Diagnosis     | ICD-10-CM |
| S06.317A | Contusion and laceration of right cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter                | Diagnosis     | ICD-10-CM |
| S06.317D | Contusion and laceration of right cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, subsequent encounter             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S06.317S | Contusion and laceration of right cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela             | Diagnosis     | ICD-10-CM |
| S06.318  | Contusion and laceration of right cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness                       | Diagnosis     | ICD-10-CM |
| S06.318A | Contusion and laceration of right cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.318D | Contusion and laceration of right cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.318S | Contusion and laceration of right cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela              | Diagnosis     | ICD-10-CM |
| S06.319  | Contusion and laceration of right cerebrum with loss of consciousness of unspecified duration  | Diagnosis     | ICD-10-CM |
| S06.319A | Contusion and laceration of right cerebrum with loss of consciousness of unspecified duration, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.319D | Contusion and laceration of right cerebrum with loss of consciousness of unspecified duration, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.319S | Contusion and laceration of right cerebrum with loss of consciousness of unspecified duration, sequela   | Diagnosis     | ICD-10-CM |
| S06.31A  | Contusion and laceration of right cerebrum with loss of consciousness status unknown   | Diagnosis     | ICD-10-CM |
| S06.31AA | Contusion and laceration of right cerebrum with loss of consciousness status unknown, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.31AD | Contusion and laceration of right cerebrum with loss of consciousness status unknown, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.31AS | Contusion and laceration of right cerebrum with loss of consciousness status unknown, sequela  | Diagnosis     | ICD-10-CM |
| S06.32   | Contusion and laceration of left cerebrum  | Diagnosis     | ICD-10-CM |
| S06.320  | Contusion and laceration of left cerebrum without loss of consciousness  | Diagnosis     | ICD-10-CM |
| S06.320A | Contusion and laceration of left cerebrum without loss of consciousness, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.320D | Contusion and laceration of left cerebrum without loss of consciousness, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.320S | Contusion and laceration of left cerebrum without loss of consciousness, sequela   | Diagnosis     | ICD-10-CM |
| S06.321  | Contusion and laceration of left cerebrum with loss of consciousness of 30 minutes or less   | Diagnosis     | ICD-10-CM |
| S06.321A | Contusion and laceration of left cerebrum with loss of consciousness of 30 minutes or less, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.321D | Contusion and laceration of left cerebrum with loss of consciousness of 30 minutes or less, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.321S | Contusion and laceration of left cerebrum with loss of consciousness of 30 minutes or less, sequela  | Diagnosis     | ICD-10-CM |
| S06.322  | Contusion and laceration of left cerebrum with loss of consciousness of 31 minutes to 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.322A | Contusion and laceration of left cerebrum with loss of consciousness of 31 minutes to 59 minutes, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.322D | Contusion and laceration of left cerebrum with loss of consciousness of 31 minutes to 59 minutes, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.322S | Contusion and laceration of left cerebrum with loss of consciousness of 31 minutes to 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.323  | Contusion and laceration of left cerebrum with loss of consciousness of 1 hour to 5 hours 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.323A | Contusion and laceration of left cerebrum with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S06.323D | Contusion and laceration of left cerebrum with loss of consciousness of 1 hour to 5 hours 59 minutes, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.323S | Contusion and laceration of left cerebrum with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.324  | Contusion and laceration of left cerebrum with loss of consciousness of 6 hours to 24 hours  | Diagnosis     | ICD-10-CM |
| S06.324A | Contusion and laceration of left cerebrum with loss of consciousness of 6 hours to 24 hours, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.324D | Contusion and laceration of left cerebrum with loss of consciousness of 6 hours to 24 hours, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.324S | Contusion and laceration of left cerebrum with loss of consciousness of 6 hours to 24 hours, sequela   | Diagnosis     | ICD-10-CM |
| S06.325  | Contusion and laceration of left cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level   | Diagnosis     | ICD-10-CM |
| S06.325A | Contusion and laceration of left cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter                              | Diagnosis     | ICD-10-CM |
| S06.325D | Contusion and laceration of left cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S06.325S | Contusion and laceration of left cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela  | Diagnosis     | ICD-10-CM |
| S06.326  | Contusion and laceration of left cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving                       | Diagnosis     | ICD-10-CM |
| S06.326A | Contusion and laceration of left cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.326D | Contusion and laceration of left cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.326S | Contusion and laceration of left cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela              | Diagnosis     | ICD-10-CM |
| S06.327  | Contusion and laceration of left cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness                                   | Diagnosis     | ICD-10-CM |
| S06.327A | Contusion and laceration of left cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter                | Diagnosis     | ICD-10-CM |
| S06.327D | Contusion and laceration of left cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S06.327S | Contusion and laceration of left cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela                          | Diagnosis     | ICD-10-CM |
| S06.328  | Contusion and laceration of left cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness                                    | Diagnosis     | ICD-10-CM |
| S06.328A | Contusion and laceration of left cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter                 | Diagnosis     | ICD-10-CM |
| S06.328D | Contusion and laceration of left cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S06.328S | Contusion and laceration of left cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela                           | Diagnosis     | ICD-10-CM |
| S06.329  | Contusion and laceration of left cerebrum with loss of consciousness of unspecified duration   | Diagnosis     | ICD-10-CM |
| S06.329A | Contusion and laceration of left cerebrum with loss of consciousness of unspecified duration, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.329D | Contusion and laceration of left cerebrum with loss of consciousness of unspecified duration, subsequent encounter   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S06.329S | Contusion and laceration of left cerebrum with loss of consciousness of unspecified duration, sequela   | Diagnosis     | ICD-10-CM |
| S06.32A  | Contusion and laceration of left cerebrum with loss of consciousness status unknown   | Diagnosis     | ICD-10-CM |
| S06.32AA | Contusion and laceration of left cerebrum with loss of consciousness status unknown, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.32AD | Contusion and laceration of left cerebrum with loss of consciousness status unknown, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S06.32AS | Contusion and laceration of left cerebrum with loss of consciousness status unknown, sequela  | Diagnosis     | ICD-10-CM |
| S06.33   | Contusion and laceration of cerebrum, unspecified   | Diagnosis     | ICD-10-CM |
| S06.330  | Contusion and laceration of cerebrum, unspecified, without loss of consciousness  | Diagnosis     | ICD-10-CM |
| S06.330A | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.330D | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.330S | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, sequela   | Diagnosis     | ICD-10-CM |
| S06.331  | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less   | Diagnosis     | ICD-10-CM |
| S06.331A | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter                          | Diagnosis     | ICD-10-CM |
| S06.331D | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S06.331S | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, sequela                                    | Diagnosis     | ICD-10-CM |
| S06.332  | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes                                       | Diagnosis     | ICD-10-CM |
| S06.332A | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter                    | Diagnosis     | ICD-10-CM |
| S06.332D | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S06.332S | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, sequela                              | Diagnosis     | ICD-10-CM |
| S06.333  | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes                                   | Diagnosis     | ICD-10-CM |
| S06.333A | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter                | Diagnosis     | ICD-10-CM |
| S06.333D | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S06.333S | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela                          | Diagnosis     | ICD-10-CM |
| S06.334  | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours  | Diagnosis     | ICD-10-CM |
| S06.334A | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter                         | Diagnosis     | ICD-10-CM |
| S06.334D | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S06.334S | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, sequela                                   | Diagnosis     | ICD-10-CM |
| S06.335  | Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S06.335A | Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter                              | Diagnosis     | ICD-10-CM |
| S06.335D | Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S06.335S | Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela  | Diagnosis     | ICD-10-CM |
| S06.336  | Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving                       | Diagnosis     | ICD-10-CM |
| S06.336A | Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.336D | Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.336S | Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela              | Diagnosis     | ICD-10-CM |
| S06.337  | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness                                   | Diagnosis     | ICD-10-CM |
| S06.337A | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter                | Diagnosis     | ICD-10-CM |
| S06.337D | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S06.337S | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela                          | Diagnosis     | ICD-10-CM |
| S06.338  | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness                                    | Diagnosis     | ICD-10-CM |
| S06.338A | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter                 | Diagnosis     | ICD-10-CM |
| S06.338D | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S06.338S | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela                           | Diagnosis     | ICD-10-CM |
| S06.339  | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration   | Diagnosis     | ICD-10-CM |
| S06.339A | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.339D | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.339S | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration, sequela  | Diagnosis     | ICD-10-CM |
| S06.33A  | Contusion and laceration of cerebrum, unspecified, with loss of consciousness status unknown  | Diagnosis     | ICD-10-CM |
| S06.33AA | Contusion and laceration of cerebrum, unspecified, with loss of consciousness status unknown, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.33AD | Contusion and laceration of cerebrum, unspecified, with loss of consciousness status unknown, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.33AS | Contusion and laceration of cerebrum, unspecified, with loss of consciousness status unknown, sequela   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S06.34   | Traumatic hemorrhage of right cerebrum  | Diagnosis     | ICD-10-CM |
| S06.340  | Traumatic hemorrhage of right cerebrum without loss of consciousness  | Diagnosis     | ICD-10-CM |
| S06.340A | Traumatic hemorrhage of right cerebrum without loss of consciousness, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.340D | Traumatic hemorrhage of right cerebrum without loss of consciousness, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.340S | Traumatic hemorrhage of right cerebrum without loss of consciousness, sequela   | Diagnosis     | ICD-10-CM |
| S06.341  | Traumatic hemorrhage of right cerebrum with loss of consciousness of 30 minutes or less   | Diagnosis     | ICD-10-CM |
| S06.341A | Traumatic hemorrhage of right cerebrum with loss of consciousness of 30 minutes or less, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.341D | Traumatic hemorrhage of right cerebrum with loss of consciousness of 30 minutes or less, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.341S | Traumatic hemorrhage of right cerebrum with loss of consciousness of 30 minutes or less, sequela  | Diagnosis     | ICD-10-CM |
| S06.342  | Traumatic hemorrhage of right cerebrum with loss of consciousness of 31 minutes to 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.342A | Traumatic hemorrhage of right cerebrum with loss of consciousness of 31 minutes to 59 minutes, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.342D | Traumatic hemorrhage of right cerebrum with loss of consciousness of 31 minutes to 59 minutes, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.342S | Traumatic hemorrhage of right cerebrum with loss of consciousness of 31 minutes to 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.343  | Traumatic hemorrhage of right cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes  | Diagnosis     | ICD-10-CM |
| S06.343A | Traumatic hemorrhage of right cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.343D | Traumatic hemorrhage of right cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.343S | Traumatic hemorrhage of right cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes, sequela   | Diagnosis     | ICD-10-CM |
| S06.344  | Traumatic hemorrhage of right cerebrum with loss of consciousness of 6 hours to 24 hours  | Diagnosis     | ICD-10-CM |
| S06.344A | Traumatic hemorrhage of right cerebrum with loss of consciousness of 6 hours to 24 hours, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.344D | Traumatic hemorrhage of right cerebrum with loss of consciousness of 6 hours to 24 hours, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.344S | Traumatic hemorrhage of right cerebrum with loss of consciousness of 6 hours to 24 hours, sequela   | Diagnosis     | ICD-10-CM |
| S06.345  | Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level   | Diagnosis     | ICD-10-CM |
| S06.345A | Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter                              | Diagnosis     | ICD-10-CM |
| S06.345D | Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S06.345S | Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela  | Diagnosis     | ICD-10-CM |
| S06.346  | Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving                       | Diagnosis     | ICD-10-CM |
| S06.346A | Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.346D | Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, subsequent encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S06.346S | Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela  | Diagnosis     | ICD-10-CM |
| S06.347  | Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness                       | Diagnosis     | ICD-10-CM |
| S06.347A | Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.347D | Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.347S | Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela              | Diagnosis     | ICD-10-CM |
| S06.348  | Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness                        | Diagnosis     | ICD-10-CM |
| S06.348A | Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter     | Diagnosis     | ICD-10-CM |
| S06.348D | Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.348S | Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela               | Diagnosis     | ICD-10-CM |
| S06.349  | Traumatic hemorrhage of right cerebrum with loss of consciousness of unspecified duration   | Diagnosis     | ICD-10-CM |
| S06.349A | Traumatic hemorrhage of right cerebrum with loss of consciousness of unspecified duration, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.349D | Traumatic hemorrhage of right cerebrum with loss of consciousness of unspecified duration, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.349S | Traumatic hemorrhage of right cerebrum with loss of consciousness of unspecified duration, sequela  | Diagnosis     | ICD-10-CM |
| S06.34A  | Traumatic hemorrhage of right cerebrum with loss of consciousness status unknown  | Diagnosis     | ICD-10-CM |
| S06.34AA | Traumatic hemorrhage of right cerebrum with loss of consciousness status unknown, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.34AD | Traumatic hemorrhage of right cerebrum with loss of consciousness status unknown, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.34AS | Traumatic hemorrhage of right cerebrum with loss of consciousness status unknown, sequela   | Diagnosis     | ICD-10-CM |
| S06.35   | Traumatic hemorrhage of left cerebrum   | Diagnosis     | ICD-10-CM |
| S06.350  | Traumatic hemorrhage of left cerebrum without loss of consciousness   | Diagnosis     | ICD-10-CM |
| S06.350A | Traumatic hemorrhage of left cerebrum without loss of consciousness, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.350D | Traumatic hemorrhage of left cerebrum without loss of consciousness, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.350S | Traumatic hemorrhage of left cerebrum without loss of consciousness, sequela  | Diagnosis     | ICD-10-CM |
| S06.351  | Traumatic hemorrhage of left cerebrum with loss of consciousness of 30 minutes or less  | Diagnosis     | ICD-10-CM |
| S06.351A | Traumatic hemorrhage of left cerebrum with loss of consciousness of 30 minutes or less, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.351D | Traumatic hemorrhage of left cerebrum with loss of consciousness of 30 minutes or less, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.351S | Traumatic hemorrhage of left cerebrum with loss of consciousness of 30 minutes or less, sequela   | Diagnosis     | ICD-10-CM |
| S06.352  | Traumatic hemorrhage of left cerebrum with loss of consciousness of 31 minutes to 59 minutes  | Diagnosis     | ICD-10-CM |
| S06.352A | Traumatic hemorrhage of left cerebrum with loss of consciousness of 31 minutes to 59 minutes, initial encounter   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S06.352D | Traumatic hemorrhage of left cerebrum with loss of consciousness of 31 minutes to 59 minutes, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.352S | Traumatic hemorrhage of left cerebrum with loss of consciousness of 31 minutes to 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.353  | Traumatic hemorrhage of left cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes  | Diagnosis     | ICD-10-CM |
| S06.353A | Traumatic hemorrhage of left cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.353D | Traumatic hemorrhage of left cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.353S | Traumatic hemorrhage of left cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes, sequela   | Diagnosis     | ICD-10-CM |
| S06.354  | Traumatic hemorrhage of left cerebrum with loss of consciousness of 6 hours to 24 hours  | Diagnosis     | ICD-10-CM |
| S06.354A | Traumatic hemorrhage of left cerebrum with loss of consciousness of 6 hours to 24 hours, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.354D | Traumatic hemorrhage of left cerebrum with loss of consciousness of 6 hours to 24 hours, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.354S | Traumatic hemorrhage of left cerebrum with loss of consciousness of 6 hours to 24 hours, sequela   | Diagnosis     | ICD-10-CM |
| S06.355  | Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level   | Diagnosis     | ICD-10-CM |
| S06.355A | Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter                              | Diagnosis     | ICD-10-CM |
| S06.355D | Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S06.355S | Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela  | Diagnosis     | ICD-10-CM |
| S06.356  | Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving                       | Diagnosis     | ICD-10-CM |
| S06.356A | Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.356D | Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.356S | Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela              | Diagnosis     | ICD-10-CM |
| S06.357  | Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness                                   | Diagnosis     | ICD-10-CM |
| S06.357A | Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter                | Diagnosis     | ICD-10-CM |
| S06.357D | Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S06.357S | Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela                          | Diagnosis     | ICD-10-CM |
| S06.358  | Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness                                    | Diagnosis     | ICD-10-CM |
| S06.358A | Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter                 | Diagnosis     | ICD-10-CM |
| S06.358D | Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, subsequent encounter              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S06.358S | Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela | Diagnosis     | ICD-10-CM |
| S06.359  | Traumatic hemorrhage of left cerebrum with loss of consciousness of unspecified duration   | Diagnosis     | ICD-10-CM |
| S06.359A | Traumatic hemorrhage of left cerebrum with loss of consciousness of unspecified duration, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.359D | Traumatic hemorrhage of left cerebrum with loss of consciousness of unspecified duration, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.359S | Traumatic hemorrhage of left cerebrum with loss of consciousness of unspecified duration, sequela  | Diagnosis     | ICD-10-CM |
| S06.35A  | Traumatic hemorrhage of left cerebrum with loss of consciousness status unknown  | Diagnosis     | ICD-10-CM |
| S06.35AA | Traumatic hemorrhage of left cerebrum with loss of consciousness status unknown, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.35AD | Traumatic hemorrhage of left cerebrum with loss of consciousness status unknown, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.35AS | Traumatic hemorrhage of left cerebrum with loss of consciousness status unknown, sequela   | Diagnosis     | ICD-10-CM |
| S06.36   | Traumatic hemorrhage of cerebrum, unspecified  | Diagnosis     | ICD-10-CM |
| S06.360  | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness   | Diagnosis     | ICD-10-CM |
| S06.360A | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.360D | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.360S | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, sequela  | Diagnosis     | ICD-10-CM |
| S06.361  | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less  | Diagnosis     | ICD-10-CM |
| S06.361A | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter                                       | Diagnosis     | ICD-10-CM |
| S06.361D | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, subsequent encounter                                    | Diagnosis     | ICD-10-CM |
| S06.361S | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, sequela   | Diagnosis     | ICD-10-CM |
| S06.362  | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes  | Diagnosis     | ICD-10-CM |
| S06.362A | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S06.362D | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S06.362S | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, sequela   | Diagnosis     | ICD-10-CM |
| S06.363  | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.363A | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter                            | Diagnosis     | ICD-10-CM |
| S06.363D | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S06.363S | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, sequela                                      | Diagnosis     | ICD-10-CM |
| S06.364  | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours   | Diagnosis     | ICD-10-CM |
| S06.364A | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter                                      | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S06.364D | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.364S | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, sequela   | Diagnosis     | ICD-10-CM |
| S06.365  | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level   | Diagnosis     | ICD-10-CM |
| S06.365A | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter                              | Diagnosis     | ICD-10-CM |
| S06.365D | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S06.365S | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela  | Diagnosis     | ICD-10-CM |
| S06.366  | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving                       | Diagnosis     | ICD-10-CM |
| S06.366A | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.366D | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.366S | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela              | Diagnosis     | ICD-10-CM |
| S06.367  | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness                                   | Diagnosis     | ICD-10-CM |
| S06.367A | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter                | Diagnosis     | ICD-10-CM |
| S06.367D | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S06.367S | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela                          | Diagnosis     | ICD-10-CM |
| S06.368  | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness                                    | Diagnosis     | ICD-10-CM |
| S06.368A | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter                 | Diagnosis     | ICD-10-CM |
| S06.368D | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S06.368S | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela                           | Diagnosis     | ICD-10-CM |
| S06.369  | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration   | Diagnosis     | ICD-10-CM |
| S06.369A | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.369D | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.369S | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, sequela  | Diagnosis     | ICD-10-CM |
| S06.36A  | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness status unknown  | Diagnosis     | ICD-10-CM |
| S06.36AA | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness status unknown, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.36AD | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness status unknown, subsequent encounter  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S06.36AS | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness status unknown, sequela  | Diagnosis     | ICD-10-CM |
| S06.37   | Contusion, laceration, and hemorrhage of cerebellum  | Diagnosis     | ICD-10-CM |
| S06.370  | Contusion, laceration, and hemorrhage of cerebellum without loss of consciousness  | Diagnosis     | ICD-10-CM |
| S06.370A | Contusion, laceration, and hemorrhage of cerebellum without loss of consciousness, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.370D | Contusion, laceration, and hemorrhage of cerebellum without loss of consciousness, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.370S | Contusion, laceration, and hemorrhage of cerebellum without loss of consciousness, sequela   | Diagnosis     | ICD-10-CM |
| S06.371  | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 30 minutes or less   | Diagnosis     | ICD-10-CM |
| S06.371A | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 30 minutes or less, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.371D | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 30 minutes or less, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.371S | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 30 minutes or less, sequela  | Diagnosis     | ICD-10-CM |
| S06.372  | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 31 minutes to 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.372A | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 31 minutes to 59 minutes, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.372D | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 31 minutes to 59 minutes, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S06.372S | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 31 minutes to 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.373  | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 1 hour to 5 hours 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.373A | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter                                      | Diagnosis     | ICD-10-CM |
| S06.373D | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 1 hour to 5 hours 59 minutes, subsequent encounter                                   | Diagnosis     | ICD-10-CM |
| S06.373S | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.374  | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 6 hours to 24 hours  | Diagnosis     | ICD-10-CM |
| S06.374A | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 6 hours to 24 hours, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.374D | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 6 hours to 24 hours, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.374S | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 6 hours to 24 hours, sequela   | Diagnosis     | ICD-10-CM |
| S06.375  | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness greater than 24 hours with return to pre-existing conscious level                       | Diagnosis     | ICD-10-CM |
| S06.375A | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.375D | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.375S | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S06.376  | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving                       | Diagnosis     | ICD-10-CM |
| S06.376A | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.376D | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.376S | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela              | Diagnosis     | ICD-10-CM |
| S06.377  | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness                                   | Diagnosis     | ICD-10-CM |
| S06.377A | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter                | Diagnosis     | ICD-10-CM |
| S06.377D | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S06.377S | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela                          | Diagnosis     | ICD-10-CM |
| S06.378  | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness                                    | Diagnosis     | ICD-10-CM |
| S06.378A | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter                 | Diagnosis     | ICD-10-CM |
| S06.378D | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S06.378S | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela                           | Diagnosis     | ICD-10-CM |
| S06.379  | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of unspecified duration   | Diagnosis     | ICD-10-CM |
| S06.379A | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of unspecified duration, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.379D | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of unspecified duration, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.379S | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of unspecified duration, sequela  | Diagnosis     | ICD-10-CM |
| S06.37A  | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness status unknown  | Diagnosis     | ICD-10-CM |
| S06.37AA | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness status unknown, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.37AD | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness status unknown, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.37AS | Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness status unknown, sequela   | Diagnosis     | ICD-10-CM |
| S06.38   | Contusion, laceration, and hemorrhage of brainstem   | Diagnosis     | ICD-10-CM |
| S06.380  | Contusion, laceration, and hemorrhage of brainstem without loss of consciousness   | Diagnosis     | ICD-10-CM |
| S06.380A | Contusion, laceration, and hemorrhage of brainstem without loss of consciousness, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.380D | Contusion, laceration, and hemorrhage of brainstem without loss of consciousness, subsequent encounter   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S06.380S | Contusion, laceration, and hemorrhage of brainstem without loss of consciousness, sequela   | Diagnosis     | ICD-10-CM |
| S06.381  | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 30 minutes or less   | Diagnosis     | ICD-10-CM |
| S06.381A | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 30 minutes or less, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.381D | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 30 minutes or less, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.381S | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 30 minutes or less, sequela  | Diagnosis     | ICD-10-CM |
| S06.382  | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 31 minutes to 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.382A | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 31 minutes to 59 minutes, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.382D | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 31 minutes to 59 minutes, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.382S | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 31 minutes to 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.383  | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 1 hour to 5 hours 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.383A | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.383D | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 1 hour to 5 hours 59 minutes, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.383S | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.384  | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 6 hours to 24 hours  | Diagnosis     | ICD-10-CM |
| S06.384A | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 6 hours to 24 hours, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.384D | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 6 hours to 24 hours, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.384S | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 6 hours to 24 hours, sequela   | Diagnosis     | ICD-10-CM |
| S06.385  | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness greater than 24 hours with return to pre-existing conscious level   | Diagnosis     | ICD-10-CM |
| S06.385A | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter                              | Diagnosis     | ICD-10-CM |
| S06.385D | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness greater than 24 hours with return to pre-existing conscious level, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S06.385S | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela  | Diagnosis     | ICD-10-CM |
| S06.386  | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving                       | Diagnosis     | ICD-10-CM |
| S06.386A | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.386D | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, subsequent encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S06.386S | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela  | Diagnosis     | ICD-10-CM |
| S06.387  | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness                       | Diagnosis     | ICD-10-CM |
| S06.387A | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.387D | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.387S | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela              | Diagnosis     | ICD-10-CM |
| S06.388  | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of any duration with death due to other cause prior to regaining consciousness                        | Diagnosis     | ICD-10-CM |
| S06.388A | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter     | Diagnosis     | ICD-10-CM |
| S06.388D | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.388S | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela               | Diagnosis     | ICD-10-CM |
| S06.389  | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of unspecified duration   | Diagnosis     | ICD-10-CM |
| S06.389A | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of unspecified duration, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.389D | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of unspecified duration, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.389S | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of unspecified duration, sequela  | Diagnosis     | ICD-10-CM |
| S06.38A  | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness status unknown  | Diagnosis     | ICD-10-CM |
| S06.38AA | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness status unknown, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.38AD | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness status unknown, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.38AS | Contusion, laceration, and hemorrhage of brainstem with loss of consciousness status unknown, sequela   | Diagnosis     | ICD-10-CM |
| S06.4    | Epidural hemorrhage   | Diagnosis     | ICD-10-CM |
| S06.4X   | Epidural hemorrhage   | Diagnosis     | ICD-10-CM |
| S06.4X0  | Epidural hemorrhage without loss of consciousness   | Diagnosis     | ICD-10-CM |
| S06.4X0A | Epidural hemorrhage without loss of consciousness, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.4X0D | Epidural hemorrhage without loss of consciousness, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.4X0S | Epidural hemorrhage without loss of consciousness, sequela  | Diagnosis     | ICD-10-CM |
| S06.4X1  | Epidural hemorrhage with loss of consciousness of 30 minutes or less  | Diagnosis     | ICD-10-CM |
| S06.4X1A | Epidural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.4X1D | Epidural hemorrhage with loss of consciousness of 30 minutes or less, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.4X1S | Epidural hemorrhage with loss of consciousness of 30 minutes or less, sequela   | Diagnosis     | ICD-10-CM |
| S06.4X2  | Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes  | Diagnosis     | ICD-10-CM |
| S06.4X2A | Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S06.4X2D | Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.4X2S | Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.4X3  | Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.4X3A | Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.4X3D | Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.4X3S | Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.4X4  | Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours  | Diagnosis     | ICD-10-CM |
| S06.4X4A | Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.4X4D | Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.4X4S | Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, sequela   | Diagnosis     | ICD-10-CM |
| S06.4X5  | Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level   | Diagnosis     | ICD-10-CM |
| S06.4X5A | Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter                              | Diagnosis     | ICD-10-CM |
| S06.4X5D | Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S06.4X5S | Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela  | Diagnosis     | ICD-10-CM |
| S06.4X6  | Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving                       | Diagnosis     | ICD-10-CM |
| S06.4X6A | Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.4X6D | Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.4X6S | Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela              | Diagnosis     | ICD-10-CM |
| S06.4X7  | Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness                                   | Diagnosis     | ICD-10-CM |
| S06.4X7A | Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter                | Diagnosis     | ICD-10-CM |
| S06.4X7D | Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S06.4X7S | Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela                          | Diagnosis     | ICD-10-CM |
| S06.4X8  | Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness                                   | Diagnosis     | ICD-10-CM |
| S06.4X8A | Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, initial encounter                | Diagnosis     | ICD-10-CM |
| S06.4X8D | Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S06.4X8S | Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, sequela                          | Diagnosis     | ICD-10-CM |
| S06.4X9  | Epidural hemorrhage with loss of consciousness of unspecified duration   | Diagnosis     | ICD-10-CM |
| S06.4X9A | Epidural hemorrhage with loss of consciousness of unspecified duration, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.4X9D | Epidural hemorrhage with loss of consciousness of unspecified duration, subsequent encounter   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S06.4X9S | Epidural hemorrhage with loss of consciousness of unspecified duration, sequela   | Diagnosis     | ICD-10-CM |
| S06.4XA  | Epidural hemorrhage with loss of consciousness status unknown   | Diagnosis     | ICD-10-CM |
| S06.4XAA | Epidural hemorrhage with loss of consciousness status unknown, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.4XAD | Epidural hemorrhage with loss of consciousness status unknown, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.4XAS | Epidural hemorrhage with loss of consciousness status unknown, sequela  | Diagnosis     | ICD-10-CM |
| S06.5    | Traumatic subdural hemorrhage   | Diagnosis     | ICD-10-CM |
| S06.5X   | Traumatic subdural hemorrhage   | Diagnosis     | ICD-10-CM |
| S06.5X0  | Traumatic subdural hemorrhage without loss of consciousness   | Diagnosis     | ICD-10-CM |
| S06.5X0A | Traumatic subdural hemorrhage without loss of consciousness, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.5X0D | Traumatic subdural hemorrhage without loss of consciousness, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.5X0S | Traumatic subdural hemorrhage without loss of consciousness, sequela  | Diagnosis     | ICD-10-CM |
| S06.5X1  | Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less  | Diagnosis     | ICD-10-CM |
| S06.5X1A | Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.5X1D | Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.5X1S | Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, sequela   | Diagnosis     | ICD-10-CM |
| S06.5X2  | Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes  | Diagnosis     | ICD-10-CM |
| S06.5X2A | Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.5X2D | Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.5X2S | Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, sequela   | Diagnosis     | ICD-10-CM |
| S06.5X3  | Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes  | Diagnosis     | ICD-10-CM |
| S06.5X3A | Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.5X3D | Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.5X3S | Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela   | Diagnosis     | ICD-10-CM |
| S06.5X4  | Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours   | Diagnosis     | ICD-10-CM |
| S06.5X4A | Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.5X4D | Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.5X4S | Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, sequela  | Diagnosis     | ICD-10-CM |
| S06.5X5  | Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level  | Diagnosis     | ICD-10-CM |
| S06.5X5A | Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter                           | Diagnosis     | ICD-10-CM |
| S06.5X5D | Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S06.5X5S | Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela                                     | Diagnosis     | ICD-10-CM |
| S06.5X6  | Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving                    | Diagnosis     | ICD-10-CM |
| S06.5X6A | Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S06.5X6D | Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.5X6S | Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela              | Diagnosis     | ICD-10-CM |
| S06.5X7  | Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness                                     | Diagnosis     | ICD-10-CM |
| S06.5X7A | Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, initial encounter                  | Diagnosis     | ICD-10-CM |
| S06.5X7D | Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S06.5X7S | Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, sequela                            | Diagnosis     | ICD-10-CM |
| S06.5X8  | Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness                                      | Diagnosis     | ICD-10-CM |
| S06.5X8A | Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, initial encounter                   | Diagnosis     | ICD-10-CM |
| S06.5X8D | Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S06.5X8S | Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, sequela                             | Diagnosis     | ICD-10-CM |
| S06.5X9  | Traumatic subdural hemorrhage with loss of consciousness of unspecified duration   | Diagnosis     | ICD-10-CM |
| S06.5X9A | Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.5X9D | Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.5X9S | Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, sequela  | Diagnosis     | ICD-10-CM |
| S06.5XA  | Traumatic subdural hemorrhage with loss of consciousness status unknown  | Diagnosis     | ICD-10-CM |
| S06.5XAA | Traumatic subdural hemorrhage with loss of consciousness status unknown, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.5XAD | Traumatic subdural hemorrhage with loss of consciousness status unknown, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.5XAS | Traumatic subdural hemorrhage with loss of consciousness status unknown, sequela   | Diagnosis     | ICD-10-CM |
| S06.6    | Traumatic subarachnoid hemorrhage  | Diagnosis     | ICD-10-CM |
| S06.6X   | Traumatic subarachnoid hemorrhage  | Diagnosis     | ICD-10-CM |
| S06.6X0  | Traumatic subarachnoid hemorrhage without loss of consciousness  | Diagnosis     | ICD-10-CM |
| S06.6X0A | Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.6X0D | Traumatic subarachnoid hemorrhage without loss of consciousness, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.6X0S | Traumatic subarachnoid hemorrhage without loss of consciousness, sequela   | Diagnosis     | ICD-10-CM |
| S06.6X1  | Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less   | Diagnosis     | ICD-10-CM |
| S06.6X1A | Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.6X1D | Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.6X1S | Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, sequela  | Diagnosis     | ICD-10-CM |
| S06.6X2  | Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.6X2A | Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S06.6X2D | Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.6X2S | Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.6X3  | Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.6X3A | Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.6X3D | Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.6X3S | Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.6X4  | Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours  | Diagnosis     | ICD-10-CM |
| S06.6X4A | Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.6X4D | Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.6X4S | Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, sequela   | Diagnosis     | ICD-10-CM |
| S06.6X5  | Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level   | Diagnosis     | ICD-10-CM |
| S06.6X5A | Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter                              | Diagnosis     | ICD-10-CM |
| S06.6X5D | Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S06.6X5S | Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela  | Diagnosis     | ICD-10-CM |
| S06.6X6  | Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving                       | Diagnosis     | ICD-10-CM |
| S06.6X6A | Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.6X6D | Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.6X6S | Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela              | Diagnosis     | ICD-10-CM |
| S06.6X7  | Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness                                   | Diagnosis     | ICD-10-CM |
| S06.6X7A | Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter                | Diagnosis     | ICD-10-CM |
| S06.6X7D | Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S06.6X7S | Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela                          | Diagnosis     | ICD-10-CM |
| S06.6X8  | Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness                                    | Diagnosis     | ICD-10-CM |
| S06.6X8A | Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter                 | Diagnosis     | ICD-10-CM |
| S06.6X8D | Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, subsequent encounter              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S06.6X8S | Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela                     | Diagnosis     | ICD-10-CM |
| S06.6X9  | Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration   | Diagnosis     | ICD-10-CM |
| S06.6X9A | Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.6X9D | Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.6X9S | Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, sequela  | Diagnosis     | ICD-10-CM |
| S06.6XA  | Traumatic subarachnoid hemorrhage with loss of consciousness status unknown  | Diagnosis     | ICD-10-CM |
| S06.6XAA | Traumatic subarachnoid hemorrhage with loss of consciousness status unknown, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.6XAD | Traumatic subarachnoid hemorrhage with loss of consciousness status unknown, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.6XAS | Traumatic subarachnoid hemorrhage with loss of consciousness status unknown, sequela   | Diagnosis     | ICD-10-CM |
| S06.8    | Other specified intracranial injuries  | Diagnosis     | ICD-10-CM |
| S06.81   | Injury of right internal carotid artery, intracranial portion, not elsewhere classified  | Diagnosis     | ICD-10-CM |
| S06.810  | Injury of right internal carotid artery, intracranial portion, not elsewhere classified without loss of consciousness  | Diagnosis     | ICD-10-CM |
| S06.810A | Injury of right internal carotid artery, intracranial portion, not elsewhere classified without loss of consciousness, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S06.810D | Injury of right internal carotid artery, intracranial portion, not elsewhere classified without loss of consciousness, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S06.810S | Injury of right internal carotid artery, intracranial portion, not elsewhere classified without loss of consciousness, sequela   | Diagnosis     | ICD-10-CM |
| S06.811  | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 30 minutes or less                                 | Diagnosis     | ICD-10-CM |
| S06.811A | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 30 minutes or less, initial encounter              | Diagnosis     | ICD-10-CM |
| S06.811D | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 30 minutes or less, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S06.811S | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 30 minutes or less, sequela                        | Diagnosis     | ICD-10-CM |
| S06.812  | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes                           | Diagnosis     | ICD-10-CM |
| S06.812A | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes, initial encounter        | Diagnosis     | ICD-10-CM |
| S06.812D | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S06.812S | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes, sequela                  | Diagnosis     | ICD-10-CM |
| S06.813  | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes                       | Diagnosis     | ICD-10-CM |
| S06.813A | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.813D | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.813S | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S06.814  | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 6 hours to 24 hours  | Diagnosis     | ICD-10-CM |
| S06.814A | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 6 hours to 24 hours, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.814D | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 6 hours to 24 hours, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.814S | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 6 hours to 24 hours, sequela   | Diagnosis     | ICD-10-CM |
| S06.815  | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level   | Diagnosis     | ICD-10-CM |
| S06.815A | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter                              | Diagnosis     | ICD-10-CM |
| S06.815D | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S06.815S | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela  | Diagnosis     | ICD-10-CM |
| S06.816  | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving                       | Diagnosis     | ICD-10-CM |
| S06.816A | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.816D | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.816S | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela              | Diagnosis     | ICD-10-CM |
| S06.817  | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness                                   | Diagnosis     | ICD-10-CM |
| S06.817A | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter                | Diagnosis     | ICD-10-CM |
| S06.817D | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S06.817S | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela                          | Diagnosis     | ICD-10-CM |
| S06.818  | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to other cause prior to regaining consciousness                                    | Diagnosis     | ICD-10-CM |
| S06.818A | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S06.818D | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.818S | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela              | Diagnosis     | ICD-10-CM |
| S06.819  | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of unspecified duration  | Diagnosis     | ICD-10-CM |
| S06.819A | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of unspecified duration, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.819D | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of unspecified duration, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.819S | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of unspecified duration, sequela   | Diagnosis     | ICD-10-CM |
| S06.81A  | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness status unknown   | Diagnosis     | ICD-10-CM |
| S06.81AA | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness status unknown, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.81AD | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness status unknown, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.81AS | Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness status unknown, sequela  | Diagnosis     | ICD-10-CM |
| S06.82   | Injury of left internal carotid artery, intracranial portion, not elsewhere classified  | Diagnosis     | ICD-10-CM |
| S06.820  | Injury of left internal carotid artery, intracranial portion, not elsewhere classified without loss of consciousness  | Diagnosis     | ICD-10-CM |
| S06.820A | Injury of left internal carotid artery, intracranial portion, not elsewhere classified without loss of consciousness, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.820D | Injury of left internal carotid artery, intracranial portion, not elsewhere classified without loss of consciousness, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.820S | Injury of left internal carotid artery, intracranial portion, not elsewhere classified without loss of consciousness, sequela   | Diagnosis     | ICD-10-CM |
| S06.821  | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 30 minutes or less   | Diagnosis     | ICD-10-CM |
| S06.821A | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 30 minutes or less, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.821D | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 30 minutes or less, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.821S | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 30 minutes or less, sequela  | Diagnosis     | ICD-10-CM |
| S06.822  | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.822A | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.822D | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.822S | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.823  | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S06.823A | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.823D | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.823S | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.824  | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 6 hours to 24 hours  | Diagnosis     | ICD-10-CM |
| S06.824A | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 6 hours to 24 hours, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.824D | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 6 hours to 24 hours, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.824S | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 6 hours to 24 hours, sequela   | Diagnosis     | ICD-10-CM |
| S06.825  | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level   | Diagnosis     | ICD-10-CM |
| S06.825A | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter                              | Diagnosis     | ICD-10-CM |
| S06.825D | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S06.825S | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela  | Diagnosis     | ICD-10-CM |
| S06.826  | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving                       | Diagnosis     | ICD-10-CM |
| S06.826A | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.826D | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.826S | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela              | Diagnosis     | ICD-10-CM |
| S06.827  | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness                                   | Diagnosis     | ICD-10-CM |
| S06.827A | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter                | Diagnosis     | ICD-10-CM |
| S06.827D | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S06.827S | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela                          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S06.828  | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to other cause prior to regaining consciousness                       | Diagnosis     | ICD-10-CM |
| S06.828A | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.828D | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.828S | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela              | Diagnosis     | ICD-10-CM |
| S06.829  | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of unspecified duration  | Diagnosis     | ICD-10-CM |
| S06.829A | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of unspecified duration, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.829D | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of unspecified duration, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.829S | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of unspecified duration, sequela   | Diagnosis     | ICD-10-CM |
| S06.82A  | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness status unknown   | Diagnosis     | ICD-10-CM |
| S06.82AA | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness status unknown, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.82AD | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness status unknown, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.82AS | Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness status unknown, sequela  | Diagnosis     | ICD-10-CM |
| S06.89   | Other specified intracranial injury  | Diagnosis     | ICD-10-CM |
| S06.890  | Other specified intracranial injury without loss of consciousness  | Diagnosis     | ICD-10-CM |
| S06.890A | Other specified intracranial injury without loss of consciousness, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.890D | Other specified intracranial injury without loss of consciousness, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.890S | Other specified intracranial injury without loss of consciousness, sequela   | Diagnosis     | ICD-10-CM |
| S06.891  | Other specified intracranial injury with loss of consciousness of 30 minutes or less   | Diagnosis     | ICD-10-CM |
| S06.891A | Other specified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.891D | Other specified intracranial injury with loss of consciousness of 30 minutes or less, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.891S | Other specified intracranial injury with loss of consciousness of 30 minutes or less, sequela  | Diagnosis     | ICD-10-CM |
| S06.892  | Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.892A | Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.892D | Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.892S | Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.893  | Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.893A | Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S06.893D | Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.893S | Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.894  | Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours  | Diagnosis     | ICD-10-CM |
| S06.894A | Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.894D | Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.894S | Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, sequela   | Diagnosis     | ICD-10-CM |
| S06.895  | Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level   | Diagnosis     | ICD-10-CM |
| S06.895A | Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter                              | Diagnosis     | ICD-10-CM |
| S06.895D | Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S06.895S | Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela  | Diagnosis     | ICD-10-CM |
| S06.896  | Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving                       | Diagnosis     | ICD-10-CM |
| S06.896A | Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.896D | Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.896S | Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela              | Diagnosis     | ICD-10-CM |
| S06.897  | Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness                                   | Diagnosis     | ICD-10-CM |
| S06.897A | Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter                | Diagnosis     | ICD-10-CM |
| S06.897D | Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S06.897S | Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela                          | Diagnosis     | ICD-10-CM |
| S06.898  | Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness                                    | Diagnosis     | ICD-10-CM |
| S06.898A | Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter                 | Diagnosis     | ICD-10-CM |
| S06.898D | Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S06.898S | Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela                           | Diagnosis     | ICD-10-CM |
| S06.899  | Other specified intracranial injury with loss of consciousness of unspecified duration   | Diagnosis     | ICD-10-CM |
| S06.899A | Other specified intracranial injury with loss of consciousness of unspecified duration, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.899D | Other specified intracranial injury with loss of consciousness of unspecified duration, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.899S | Other specified intracranial injury with loss of consciousness of unspecified duration, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S06.89A  | Other specified intracranial injury with loss of consciousness status unknown   | Diagnosis     | ICD-10-CM |
| S06.89AA | Other specified intracranial injury with loss of consciousness status unknown, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.89AD | Other specified intracranial injury with loss of consciousness status unknown, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.89AS | Other specified intracranial injury with loss of consciousness status unknown, sequela  | Diagnosis     | ICD-10-CM |
| S06.8A   | Primary blast injury of brain, not elsewhere classified   | Diagnosis     | ICD-10-CM |
| S06.8A0  | Primary blast injury of brain, not elsewhere classified without loss of consciousness   | Diagnosis     | ICD-10-CM |
| S06.8A0A | Primary blast injury of brain, not elsewhere classified without loss of consciousness, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.8A0D | Primary blast injury of brain, not elsewhere classified without loss of consciousness, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.8A0S | Primary blast injury of brain, not elsewhere classified without loss of consciousness, sequela  | Diagnosis     | ICD-10-CM |
| S06.8A1  | Primary blast injury of brain, not elsewhere classified with loss of consciousness of 30 minutes or less  | Diagnosis     | ICD-10-CM |
| S06.8A1A | Primary blast injury of brain, not elsewhere classified with loss of consciousness of 30 minutes or less, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.8A1D | Primary blast injury of brain, not elsewhere classified with loss of consciousness of 30 minutes or less, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.8A1S | Primary blast injury of brain, not elsewhere classified with loss of consciousness of 30 minutes or less, sequela   | Diagnosis     | ICD-10-CM |
| S06.8A2  | Primary blast injury of brain, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes  | Diagnosis     | ICD-10-CM |
| S06.8A2A | Primary blast injury of brain, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes, initial encounter                                       | Diagnosis     | ICD-10-CM |
| S06.8A2D | Primary blast injury of brain, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes, subsequent encounter                                    | Diagnosis     | ICD-10-CM |
| S06.8A2S | Primary blast injury of brain, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes, sequela   | Diagnosis     | ICD-10-CM |
| S06.8A3  | Primary blast injury of brain, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes  | Diagnosis     | ICD-10-CM |
| S06.8A3A | Primary blast injury of brain, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S06.8A3D | Primary blast injury of brain, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S06.8A3S | Primary blast injury of brain, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela   | Diagnosis     | ICD-10-CM |
| S06.8A4  | Primary blast injury of brain, not elsewhere classified with loss of consciousness of 6 hours to 24 hours   | Diagnosis     | ICD-10-CM |
| S06.8A4A | Primary blast injury of brain, not elsewhere classified with loss of consciousness of 6 hours to 24 hours, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.8A4D | Primary blast injury of brain, not elsewhere classified with loss of consciousness of 6 hours to 24 hours, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.8A4S | Primary blast injury of brain, not elsewhere classified with loss of consciousness of 6 hours to 24 hours, sequela  | Diagnosis     | ICD-10-CM |
| S06.8A5  | Primary blast injury of brain, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level                    | Diagnosis     | ICD-10-CM |
| S06.8A5A | Primary blast injury of brain, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S06.8A5D | Primary blast injury of brain, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S06.8A5S | Primary blast injury of brain, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela  | Diagnosis     | ICD-10-CM |
| S06.8A6  | Primary blast injury of brain, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving                       | Diagnosis     | ICD-10-CM |
| S06.8A6A | Primary blast injury of brain, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.8A6D | Primary blast injury of brain, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.8A6S | Primary blast injury of brain, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela              | Diagnosis     | ICD-10-CM |
| S06.8A7  | Primary blast injury of brain, not elsewhere classified with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness                                   | Diagnosis     | ICD-10-CM |
| S06.8A7A | Primary blast injury of brain, not elsewhere classified with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter                | Diagnosis     | ICD-10-CM |
| S06.8A8  | Primary blast injury of brain, not elsewhere classified with loss of consciousness of any duration with death due to other cause prior to regaining consciousness                                    | Diagnosis     | ICD-10-CM |
| S06.8A8A | Primary blast injury of brain, not elsewhere classified with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter                 | Diagnosis     | ICD-10-CM |
| S06.8A9  | Primary blast injury of brain, not elsewhere classified with loss of consciousness of unspecified duration   | Diagnosis     | ICD-10-CM |
| S06.8A9A | Primary blast injury of brain, not elsewhere classified with loss of consciousness of unspecified duration, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.8A9D | Primary blast injury of brain, not elsewhere classified with loss of consciousness of unspecified duration, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.8A9S | Primary blast injury of brain, not elsewhere classified with loss of consciousness of unspecified duration, sequela  | Diagnosis     | ICD-10-CM |
| S06.8AA  | Primary blast injury of brain, not elsewhere classified with loss of consciousness status unknown  | Diagnosis     | ICD-10-CM |
| S06.8AAA | Primary blast injury of brain, not elsewhere classified with loss of consciousness status unknown, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.8AAD | Primary blast injury of brain, not elsewhere classified with loss of consciousness status unknown, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.8AAS | Primary blast injury of brain, not elsewhere classified with loss of consciousness status unknown, sequela   | Diagnosis     | ICD-10-CM |
| S06.9    | Unspecified intracranial injury  | Diagnosis     | ICD-10-CM |
| S06.9X   | Unspecified intracranial injury  | Diagnosis     | ICD-10-CM |
| S06.9X0  | Unspecified intracranial injury without loss of consciousness  | Diagnosis     | ICD-10-CM |
| S06.9X0A | Unspecified intracranial injury without loss of consciousness, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.9X0D | Unspecified intracranial injury without loss of consciousness, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.9X0S | Unspecified intracranial injury without loss of consciousness, sequela   | Diagnosis     | ICD-10-CM |
| S06.9X1  | Unspecified intracranial injury with loss of consciousness of 30 minutes or less   | Diagnosis     | ICD-10-CM |
| S06.9X1A | Unspecified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.9X1D | Unspecified intracranial injury with loss of consciousness of 30 minutes or less, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.9X1S | Unspecified intracranial injury with loss of consciousness of 30 minutes or less, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S06.9X2  | Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.9X2A | Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.9X2D | Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.9X2S | Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.9X3  | Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes   | Diagnosis     | ICD-10-CM |
| S06.9X3A | Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.9X3D | Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.9X3S | Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela  | Diagnosis     | ICD-10-CM |
| S06.9X4  | Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours  | Diagnosis     | ICD-10-CM |
| S06.9X4A | Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.9X4D | Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.9X4S | Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, sequela   | Diagnosis     | ICD-10-CM |
| S06.9X5  | Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level   | Diagnosis     | ICD-10-CM |
| S06.9X5A | Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter                              | Diagnosis     | ICD-10-CM |
| S06.9X5D | Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S06.9X5S | Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela  | Diagnosis     | ICD-10-CM |
| S06.9X6  | Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving                       | Diagnosis     | ICD-10-CM |
| S06.9X6A | Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter    | Diagnosis     | ICD-10-CM |
| S06.9X6D | Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, subsequent encounter | Diagnosis     | ICD-10-CM |
| S06.9X6S | Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela              | Diagnosis     | ICD-10-CM |
| S06.9X7  | Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness                                   | Diagnosis     | ICD-10-CM |
| S06.9X7A | Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter                | Diagnosis     | ICD-10-CM |
| S06.9X7D | Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S06.9X7S | Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela                          | Diagnosis     | ICD-10-CM |
| S06.9X8  | Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness                                    | Diagnosis     | ICD-10-CM |
| S06.9X8A | Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter                 | Diagnosis     | ICD-10-CM |
| S06.9X8D | Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, subsequent encounter              | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S06.9X8S | Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela | Diagnosis     | ICD-10-CM |
| S06.9X9  | Unspecified intracranial injury with loss of consciousness of unspecified duration   | Diagnosis     | ICD-10-CM |
| S06.9XA  | Unspecified intracranial injury with loss of consciousness of unspecified duration, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.9XD  | Unspecified intracranial injury with loss of consciousness of unspecified duration, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.9XS  | Unspecified intracranial injury with loss of consciousness of unspecified duration, sequela  | Diagnosis     | ICD-10-CM |
| S06.9XA  | Unspecified intracranial injury with loss of consciousness status unknown  | Diagnosis     | ICD-10-CM |
| S06.9XAA | Unspecified intracranial injury with loss of consciousness status unknown, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.9XAD | Unspecified intracranial injury with loss of consciousness status unknown, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.9XAS | Unspecified intracranial injury with loss of consciousness status unknown, sequela   | Diagnosis     | ICD-10-CM |
| S06.A    | Traumatic brain compression and herniation   | Diagnosis     | ICD-10-CM |
| S06.A0   | Traumatic brain compression without herniation   | Diagnosis     | ICD-10-CM |
| S06.A0XA | Traumatic brain compression without herniation, initial encounter  | Diagnosis     | ICD-10-CM |
| S06.A0XD | Traumatic brain compression without herniation, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S06.A0XS | Traumatic brain compression without herniation, sequela  | Diagnosis     | ICD-10-CM |
| S06.A1   | Traumatic brain compression with herniation  | Diagnosis     | ICD-10-CM |
| S06.A1XA | Traumatic brain compression with herniation, initial encounter   | Diagnosis     | ICD-10-CM |
| S06.A1XD | Traumatic brain compression with herniation, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S06.A1XS | Traumatic brain compression with herniation, sequela   | Diagnosis     | ICD-10-CM |
| S07      | Crushing injury of head  | Diagnosis     | ICD-10-CM |
| S07.0    | Crushing injury of face  | Diagnosis     | ICD-10-CM |
| S07.0XXA | Crushing injury of face, initial encounter   | Diagnosis     | ICD-10-CM |
| S07.0XXD | Crushing injury of face, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S07.0XXS | Crushing injury of face, sequela   | Diagnosis     | ICD-10-CM |
| S07.1    | Crushing injury of skull   | Diagnosis     | ICD-10-CM |
| S07.1XXA | Crushing injury of skull, initial encounter  | Diagnosis     | ICD-10-CM |
| S07.1XXD | Crushing injury of skull, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S07.1XXS | Crushing injury of skull, sequela  | Diagnosis     | ICD-10-CM |
| S07.8    | Crushing injury of other parts of head   | Diagnosis     | ICD-10-CM |
| S07.8XXA | Crushing injury of other parts of head, initial encounter  | Diagnosis     | ICD-10-CM |
| S07.8XXD | Crushing injury of other parts of head, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S07.8XXS | Crushing injury of other parts of head, sequela  | Diagnosis     | ICD-10-CM |
| S07.9    | Crushing injury of head, part unspecified  | Diagnosis     | ICD-10-CM |
| S07.9XXA | Crushing injury of head, part unspecified, initial encounter   | Diagnosis     | ICD-10-CM |
| S07.9XXD | Crushing injury of head, part unspecified, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S07.9XXS | Crushing injury of head, part unspecified, sequela   | Diagnosis     | ICD-10-CM |
| S08      | Avulsion and traumatic amputation of part of head  | Diagnosis     | ICD-10-CM |
| S08.0    | Avulsion of scalp  | Diagnosis     | ICD-10-CM |
| S08.0XXA | Avulsion of scalp, initial encounter   | Diagnosis     | ICD-10-CM |
| S08.0XXD | Avulsion of scalp, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S08.0XXS | Avulsion of scalp, sequela   | Diagnosis     | ICD-10-CM |
| S08.1    | Traumatic amputation of ear  | Diagnosis     | ICD-10-CM |
| S08.11   | Complete traumatic amputation of ear   | Diagnosis     | ICD-10-CM |
| S08.111  | Complete traumatic amputation of right ear   | Diagnosis     | ICD-10-CM |
| S08.111A | Complete traumatic amputation of right ear, initial encounter  | Diagnosis     | ICD-10-CM |
| S08.111D | Complete traumatic amputation of right ear, subsequent encounter   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S08.111S | Complete traumatic amputation of right ear, sequela                             | Diagnosis     | ICD-10-CM |
| S08.112  | Complete traumatic amputation of left ear                                       | Diagnosis     | ICD-10-CM |
| S08.112A | Complete traumatic amputation of left ear, initial encounter                    | Diagnosis     | ICD-10-CM |
| S08.112D | Complete traumatic amputation of left ear, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S08.112S | Complete traumatic amputation of left ear, sequela                              | Diagnosis     | ICD-10-CM |
| S08.119  | Complete traumatic amputation of unspecified ear                                | Diagnosis     | ICD-10-CM |
| S08.119A | Complete traumatic amputation of unspecified ear, initial encounter             | Diagnosis     | ICD-10-CM |
| S08.119D | Complete traumatic amputation of unspecified ear, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S08.119S | Complete traumatic amputation of unspecified ear, sequela                       | Diagnosis     | ICD-10-CM |
| S08.12   | Partial traumatic amputation of ear   | Diagnosis     | ICD-10-CM |
| S08.121  | Partial traumatic amputation of right ear                                       | Diagnosis     | ICD-10-CM |
| S08.121A | Partial traumatic amputation of right ear, initial encounter                    | Diagnosis     | ICD-10-CM |
| S08.121D | Partial traumatic amputation of right ear, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S08.121S | Partial traumatic amputation of right ear, sequela                              | Diagnosis     | ICD-10-CM |
| S08.122  | Partial traumatic amputation of left ear  | Diagnosis     | ICD-10-CM |
| S08.122A | Partial traumatic amputation of left ear, initial encounter                     | Diagnosis     | ICD-10-CM |
| S08.122D | Partial traumatic amputation of left ear, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S08.122S | Partial traumatic amputation of left ear, sequela                               | Diagnosis     | ICD-10-CM |
| S08.129  | Partial traumatic amputation of unspecified ear                                 | Diagnosis     | ICD-10-CM |
| S08.129A | Partial traumatic amputation of unspecified ear, initial encounter              | Diagnosis     | ICD-10-CM |
| S08.129D | Partial traumatic amputation of unspecified ear, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S08.129S | Partial traumatic amputation of unspecified ear, sequela                        | Diagnosis     | ICD-10-CM |
| S08.8    | Traumatic amputation of other parts of head                                     | Diagnosis     | ICD-10-CM |
| S08.81   | Traumatic amputation of nose  | Diagnosis     | ICD-10-CM |
| S08.811  | Complete traumatic amputation of nose   | Diagnosis     | ICD-10-CM |
| S08.811A | Complete traumatic amputation of nose, initial encounter                        | Diagnosis     | ICD-10-CM |
| S08.811D | Complete traumatic amputation of nose, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S08.811S | Complete traumatic amputation of nose, sequela                                  | Diagnosis     | ICD-10-CM |
| S08.812  | Partial traumatic amputation of nose  | Diagnosis     | ICD-10-CM |
| S08.812A | Partial traumatic amputation of nose, initial encounter                         | Diagnosis     | ICD-10-CM |
| S08.812D | Partial traumatic amputation of nose, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S08.812S | Partial traumatic amputation of nose, sequela                                   | Diagnosis     | ICD-10-CM |
| S08.89   | Traumatic amputation of other parts of head                                     | Diagnosis     | ICD-10-CM |
| S08.89XA | Traumatic amputation of other parts of head, initial encounter                  | Diagnosis     | ICD-10-CM |
| S08.89XD | Traumatic amputation of other parts of head, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S08.89XS | Traumatic amputation of other parts of head, sequela                            | Diagnosis     | ICD-10-CM |
| S09      | Other and unspecified injuries of head  | Diagnosis     | ICD-10-CM |
| S09.0    | Injury of blood vessels of head, not elsewhere classified                       | Diagnosis     | ICD-10-CM |
| S09.0XXA | Injury of blood vessels of head, not elsewhere classified, initial encounter    | Diagnosis     | ICD-10-CM |
| S09.0XXD | Injury of blood vessels of head, not elsewhere classified, subsequent encounter | Diagnosis     | ICD-10-CM |
| S09.0XXS | Injury of blood vessels of head, not elsewhere classified, sequela              | Diagnosis     | ICD-10-CM |
| S09.1    | Injury of muscle and tendon of head   | Diagnosis     | ICD-10-CM |
| S09.10   | Unspecified injury of muscle and tendon of head                                 | Diagnosis     | ICD-10-CM |
| S09.10XA | Unspecified injury of muscle and tendon of head, initial encounter              | Diagnosis     | ICD-10-CM |
| S09.10XD | Unspecified injury of muscle and tendon of head, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S09.10XS | Unspecified injury of muscle and tendon of head, sequela                        | Diagnosis     | ICD-10-CM |
| S09.11   | Strain of muscle and tendon of head   | Diagnosis     | ICD-10-CM |
| S09.11XA | Strain of muscle and tendon of head, initial encounter                          | Diagnosis     | ICD-10-CM |
| S09.11XD | Strain of muscle and tendon of head, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S09.11XS | Strain of muscle and tendon of head, sequela                                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S09.12   | Laceration of muscle and tendon of head                                      | Diagnosis     | ICD-10-CM |
| S09.12XA | Laceration of muscle and tendon of head, initial encounter                   | Diagnosis     | ICD-10-CM |
| S09.12XD | Laceration of muscle and tendon of head, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S09.12XS | Laceration of muscle and tendon of head, sequela                             | Diagnosis     | ICD-10-CM |
| S09.19   | Other specified injury of muscle and tendon of head                          | Diagnosis     | ICD-10-CM |
| S09.19XA | Other specified injury of muscle and tendon of head, initial encounter       | Diagnosis     | ICD-10-CM |
| S09.19XD | Other specified injury of muscle and tendon of head, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S09.19XS | Other specified injury of muscle and tendon of head, sequela                 | Diagnosis     | ICD-10-CM |
| S09.2    | Traumatic rupture of ear drum  | Diagnosis     | ICD-10-CM |
| S09.20   | Traumatic rupture of unspecified ear drum                                    | Diagnosis     | ICD-10-CM |
| S09.20XA | Traumatic rupture of unspecified ear drum, initial encounter                 | Diagnosis     | ICD-10-CM |
| S09.20XD | Traumatic rupture of unspecified ear drum, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S09.20XS | Traumatic rupture of unspecified ear drum, sequela                           | Diagnosis     | ICD-10-CM |
| S09.21   | Traumatic rupture of right ear drum  | Diagnosis     | ICD-10-CM |
| S09.21XA | Traumatic rupture of right ear drum, initial encounter                       | Diagnosis     | ICD-10-CM |
| S09.21XD | Traumatic rupture of right ear drum, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S09.21XS | Traumatic rupture of right ear drum, sequela                                 | Diagnosis     | ICD-10-CM |
| S09.22   | Traumatic rupture of left ear drum   | Diagnosis     | ICD-10-CM |
| S09.22XA | Traumatic rupture of left ear drum, initial encounter                        | Diagnosis     | ICD-10-CM |
| S09.22XD | Traumatic rupture of left ear drum, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S09.22XS | Traumatic rupture of left ear drum, sequela                                  | Diagnosis     | ICD-10-CM |
| S09.3    | Other specified and unspecified injury of middle and inner ear               | Diagnosis     | ICD-10-CM |
| S09.30   | Unspecified injury of middle and inner ear                                   | Diagnosis     | ICD-10-CM |
| S09.301  | Unspecified injury of right middle and inner ear                             | Diagnosis     | ICD-10-CM |
| S09.301A | Unspecified injury of right middle and inner ear, initial encounter          | Diagnosis     | ICD-10-CM |
| S09.301D | Unspecified injury of right middle and inner ear, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S09.301S | Unspecified injury of right middle and inner ear, sequela                    | Diagnosis     | ICD-10-CM |
| S09.302  | Unspecified injury of left middle and inner ear                              | Diagnosis     | ICD-10-CM |
| S09.302A | Unspecified injury of left middle and inner ear, initial encounter           | Diagnosis     | ICD-10-CM |
| S09.302D | Unspecified injury of left middle and inner ear, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S09.302S | Unspecified injury of left middle and inner ear, sequela                     | Diagnosis     | ICD-10-CM |
| S09.309  | Unspecified injury of unspecified middle and inner ear                       | Diagnosis     | ICD-10-CM |
| S09.309A | Unspecified injury of unspecified middle and inner ear, initial encounter    | Diagnosis     | ICD-10-CM |
| S09.309D | Unspecified injury of unspecified middle and inner ear, subsequent encounter | Diagnosis     | ICD-10-CM |
| S09.309S | Unspecified injury of unspecified middle and inner ear, sequela              | Diagnosis     | ICD-10-CM |
| S09.31   | Primary blast injury of ear  | Diagnosis     | ICD-10-CM |
| S09.311  | Primary blast injury of right ear  | Diagnosis     | ICD-10-CM |
| S09.311A | Primary blast injury of right ear, initial encounter                         | Diagnosis     | ICD-10-CM |
| S09.311D | Primary blast injury of right ear, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S09.311S | Primary blast injury of right ear, sequela                                   | Diagnosis     | ICD-10-CM |
| S09.312  | Primary blast injury of left ear   | Diagnosis     | ICD-10-CM |
| S09.312A | Primary blast injury of left ear, initial encounter                          | Diagnosis     | ICD-10-CM |
| S09.312D | Primary blast injury of left ear, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S09.312S | Primary blast injury of left ear, sequela                                    | Diagnosis     | ICD-10-CM |
| S09.313  | Primary blast injury of ear, bilateral                                       | Diagnosis     | ICD-10-CM |
| S09.313A | Primary blast injury of ear, bilateral, initial encounter                    | Diagnosis     | ICD-10-CM |
| S09.313D | Primary blast injury of ear, bilateral, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S09.313S | Primary blast injury of ear, bilateral, sequela                              | Diagnosis     | ICD-10-CM |
| S09.319  | Primary blast injury of unspecified ear                                      | Diagnosis     | ICD-10-CM |
| S09.319A | Primary blast injury of unspecified ear, initial encounter                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S09.319D | Primary blast injury of unspecified ear, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S09.319S | Primary blast injury of unspecified ear, sequela                                 | Diagnosis     | ICD-10-CM |
| S09.39   | Other specified injury of middle and inner ear                                   | Diagnosis     | ICD-10-CM |
| S09.391  | Other specified injury of right middle and inner ear                             | Diagnosis     | ICD-10-CM |
| S09.391A | Other specified injury of right middle and inner ear, initial encounter          | Diagnosis     | ICD-10-CM |
| S09.391D | Other specified injury of right middle and inner ear, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S09.391S | Other specified injury of right middle and inner ear, sequela                    | Diagnosis     | ICD-10-CM |
| S09.392  | Other specified injury of left middle and inner ear                              | Diagnosis     | ICD-10-CM |
| S09.392A | Other specified injury of left middle and inner ear, initial encounter           | Diagnosis     | ICD-10-CM |
| S09.392D | Other specified injury of left middle and inner ear, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S09.392S | Other specified injury of left middle and inner ear, sequela                     | Diagnosis     | ICD-10-CM |
| S09.399  | Other specified injury of unspecified middle and inner ear                       | Diagnosis     | ICD-10-CM |
| S09.399A | Other specified injury of unspecified middle and inner ear, initial encounter    | Diagnosis     | ICD-10-CM |
| S09.399D | Other specified injury of unspecified middle and inner ear, subsequent encounter | Diagnosis     | ICD-10-CM |
| S09.399S | Other specified injury of unspecified middle and inner ear, sequela              | Diagnosis     | ICD-10-CM |
| S09.8    | Other specified injuries of head   | Diagnosis     | ICD-10-CM |
| S09.8XXA | Other specified injuries of head, initial encounter                              | Diagnosis     | ICD-10-CM |
| S09.8XXD | Other specified injuries of head, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S09.8XXS | Other specified injuries of head, sequela  | Diagnosis     | ICD-10-CM |
| S09.9    | Unspecified injury of face and head  | Diagnosis     | ICD-10-CM |
| S09.90   | Unspecified injury of head   | Diagnosis     | ICD-10-CM |
| S09.90XA | Unspecified injury of head, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S09.90XD | Unspecified injury of head, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S09.90XS | Unspecified injury of head, sequela  | Diagnosis     | ICD-10-CM |
| S09.91   | Unspecified injury of ear  | Diagnosis     | ICD-10-CM |
| S09.91XA | Unspecified injury of ear, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S09.91XD | Unspecified injury of ear, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S09.91XS | Unspecified injury of ear, sequela   | Diagnosis     | ICD-10-CM |
| S09.92   | Unspecified injury of nose   | Diagnosis     | ICD-10-CM |
| S09.92XA | Unspecified injury of nose, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S09.92XD | Unspecified injury of nose, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S09.92XS | Unspecified injury of nose, sequela  | Diagnosis     | ICD-10-CM |
| S09.93   | Unspecified injury of face   | Diagnosis     | ICD-10-CM |
| S09.93XA | Unspecified injury of face, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S09.93XD | Unspecified injury of face, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S09.93XS | Unspecified injury of face, sequela  | Diagnosis     | ICD-10-CM |
| S10      | Superficial injury of neck   | Diagnosis     | ICD-10-CM |
| S10.0    | Contusion of throat  | Diagnosis     | ICD-10-CM |
| S10.0XXA | Contusion of throat, initial encounter   | Diagnosis     | ICD-10-CM |
| S10.0XXD | Contusion of throat, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S10.0XXS | Contusion of throat, sequela   | Diagnosis     | ICD-10-CM |
| S10.1    | Other and unspecified superficial injuries of throat                             | Diagnosis     | ICD-10-CM |
| S10.10   | Unspecified superficial injuries of throat                                       | Diagnosis     | ICD-10-CM |
| S10.10XA | Unspecified superficial injuries of throat, initial encounter                    | Diagnosis     | ICD-10-CM |
| S10.10XD | Unspecified superficial injuries of throat, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S10.10XS | Unspecified superficial injuries of throat, sequela                              | Diagnosis     | ICD-10-CM |
| S10.11   | Abrasion of throat   | Diagnosis     | ICD-10-CM |
| S10.11XA | Abrasion of throat, initial encounter  | Diagnosis     | ICD-10-CM |
| S10.11XD | Abrasion of throat, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S10.11XS | Abrasion of throat, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S10.12   | Blister (nonthermal) of throat   | Diagnosis     | ICD-10-CM |
| S10.12XA | Blister (nonthermal) of throat, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S10.12XD | Blister (nonthermal) of throat, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S10.12XS | Blister (nonthermal) of throat, sequela  | Diagnosis     | ICD-10-CM |
| S10.14   | External constriction of part of throat  | Diagnosis     | ICD-10-CM |
| S10.14XA | External constriction of part of throat, initial encounter                           | Diagnosis     | ICD-10-CM |
| S10.14XD | External constriction of part of throat, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S10.14XS | External constriction of part of throat, sequela                                     | Diagnosis     | ICD-10-CM |
| S10.15   | Superficial foreign body of throat   | Diagnosis     | ICD-10-CM |
| S10.15XA | Superficial foreign body of throat, initial encounter                                | Diagnosis     | ICD-10-CM |
| S10.15XD | Superficial foreign body of throat, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S10.15XS | Superficial foreign body of throat, sequela  | Diagnosis     | ICD-10-CM |
| S10.16   | Insect bite (nonvenomous) of throat  | Diagnosis     | ICD-10-CM |
| S10.16XA | Insect bite (nonvenomous) of throat, initial encounter                               | Diagnosis     | ICD-10-CM |
| S10.16XD | Insect bite (nonvenomous) of throat, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S10.16XS | Insect bite (nonvenomous) of throat, sequela   | Diagnosis     | ICD-10-CM |
| S10.17   | Other superficial bite of throat   | Diagnosis     | ICD-10-CM |
| S10.17XA | Other superficial bite of throat, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S10.17XD | Other superficial bite of throat, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S10.17XS | Other superficial bite of throat, sequela  | Diagnosis     | ICD-10-CM |
| S10.8    | Superficial injury of other specified parts of neck                                  | Diagnosis     | ICD-10-CM |
| S10.80   | Unspecified superficial injury of other specified part of neck                       | Diagnosis     | ICD-10-CM |
| S10.80XA | Unspecified superficial injury of other specified part of neck, initial encounter    | Diagnosis     | ICD-10-CM |
| S10.80XD | Unspecified superficial injury of other specified part of neck, subsequent encounter | Diagnosis     | ICD-10-CM |
| S10.80XS | Unspecified superficial injury of other specified part of neck, sequela              | Diagnosis     | ICD-10-CM |
| S10.81   | Abrasion of other specified part of neck   | Diagnosis     | ICD-10-CM |
| S10.81XA | Abrasion of other specified part of neck, initial encounter                          | Diagnosis     | ICD-10-CM |
| S10.81XD | Abrasion of other specified part of neck, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S10.81XS | Abrasion of other specified part of neck, sequela                                    | Diagnosis     | ICD-10-CM |
| S10.82   | Blister (nonthermal) of other specified part of neck                                 | Diagnosis     | ICD-10-CM |
| S10.82XA | Blister (nonthermal) of other specified part of neck, initial encounter              | Diagnosis     | ICD-10-CM |
| S10.82XD | Blister (nonthermal) of other specified part of neck, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S10.82XS | Blister (nonthermal) of other specified part of neck, sequela                        | Diagnosis     | ICD-10-CM |
| S10.83   | Contusion of other specified part of neck  | Diagnosis     | ICD-10-CM |
| S10.83XA | Contusion of other specified part of neck, initial encounter                         | Diagnosis     | ICD-10-CM |
| S10.83XD | Contusion of other specified part of neck, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S10.83XS | Contusion of other specified part of neck, sequela                                   | Diagnosis     | ICD-10-CM |
| S10.84   | External constriction of other specified part of neck                                | Diagnosis     | ICD-10-CM |
| S10.84XA | External constriction of other specified part of neck, initial encounter             | Diagnosis     | ICD-10-CM |
| S10.84XD | External constriction of other specified part of neck, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S10.84XS | External constriction of other specified part of neck, sequela                       | Diagnosis     | ICD-10-CM |
| S10.85   | Superficial foreign body of other specified part of neck                             | Diagnosis     | ICD-10-CM |
| S10.85XA | Superficial foreign body of other specified part of neck, initial encounter          | Diagnosis     | ICD-10-CM |
| S10.85XD | Superficial foreign body of other specified part of neck, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S10.85XS | Superficial foreign body of other specified part of neck, sequela                    | Diagnosis     | ICD-10-CM |
| S10.86   | Insect bite of other specified part of neck  | Diagnosis     | ICD-10-CM |
| S10.86XA | Insect bite of other specified part of neck, initial encounter                       | Diagnosis     | ICD-10-CM |
| S10.86XD | Insect bite of other specified part of neck, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S10.86XS | Insect bite of other specified part of neck, sequela                                 | Diagnosis     | ICD-10-CM |
| S10.87   | Other superficial bite of other specified part of neck                               | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S10.87XA | Other superficial bite of other specified part of neck, initial encounter        | Diagnosis     | ICD-10-CM |
| S10.87XD | Other superficial bite of other specified part of neck, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S10.87XS | Other superficial bite of other specified part of neck, sequela                  | Diagnosis     | ICD-10-CM |
| S10.9    | Superficial injury of unspecified part of neck                                   | Diagnosis     | ICD-10-CM |
| S10.90   | Unspecified superficial injury of unspecified part of neck                       | Diagnosis     | ICD-10-CM |
| S10.90XA | Unspecified superficial injury of unspecified part of neck, initial encounter    | Diagnosis     | ICD-10-CM |
| S10.90XD | Unspecified superficial injury of unspecified part of neck, subsequent encounter | Diagnosis     | ICD-10-CM |
| S10.90XS | Unspecified superficial injury of unspecified part of neck, sequela              | Diagnosis     | ICD-10-CM |
| S10.91   | Abrasion of unspecified part of neck   | Diagnosis     | ICD-10-CM |
| S10.91XA | Abrasion of unspecified part of neck, initial encounter                          | Diagnosis     | ICD-10-CM |
| S10.91XD | Abrasion of unspecified part of neck, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S10.91XS | Abrasion of unspecified part of neck, sequela                                    | Diagnosis     | ICD-10-CM |
| S10.92   | Blister (nonthermal) of unspecified part of neck                                 | Diagnosis     | ICD-10-CM |
| S10.92XA | Blister (nonthermal) of unspecified part of neck, initial encounter              | Diagnosis     | ICD-10-CM |
| S10.92XD | Blister (nonthermal) of unspecified part of neck, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S10.92XS | Blister (nonthermal) of unspecified part of neck, sequela                        | Diagnosis     | ICD-10-CM |
| S10.93   | Contusion of unspecified part of neck  | Diagnosis     | ICD-10-CM |
| S10.93XA | Contusion of unspecified part of neck, initial encounter                         | Diagnosis     | ICD-10-CM |
| S10.93XD | Contusion of unspecified part of neck, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S10.93XS | Contusion of unspecified part of neck, sequela                                   | Diagnosis     | ICD-10-CM |
| S10.94   | External constriction of unspecified part of neck                                | Diagnosis     | ICD-10-CM |
| S10.94XA | External constriction of unspecified part of neck, initial encounter             | Diagnosis     | ICD-10-CM |
| S10.94XD | External constriction of unspecified part of neck, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S10.94XS | External constriction of unspecified part of neck, sequela                       | Diagnosis     | ICD-10-CM |
| S10.95   | Superficial foreign body of unspecified part of neck                             | Diagnosis     | ICD-10-CM |
| S10.95XA | Superficial foreign body of unspecified part of neck, initial encounter          | Diagnosis     | ICD-10-CM |
| S10.95XD | Superficial foreign body of unspecified part of neck, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S10.95XS | Superficial foreign body of unspecified part of neck, sequela                    | Diagnosis     | ICD-10-CM |
| S10.96   | Insect bite of unspecified part of neck  | Diagnosis     | ICD-10-CM |
| S10.96XA | Insect bite of unspecified part of neck, initial encounter                       | Diagnosis     | ICD-10-CM |
| S10.96XD | Insect bite of unspecified part of neck, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S10.96XS | Insect bite of unspecified part of neck, sequela                                 | Diagnosis     | ICD-10-CM |
| S10.97   | Other superficial bite of unspecified part of neck                               | Diagnosis     | ICD-10-CM |
| S10.97XA | Other superficial bite of unspecified part of neck, initial encounter            | Diagnosis     | ICD-10-CM |
| S10.97XD | Other superficial bite of unspecified part of neck, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S10.97XS | Other superficial bite of unspecified part of neck, sequela                      | Diagnosis     | ICD-10-CM |
| S11      | Open wound of neck   | Diagnosis     | ICD-10-CM |
| S11.0    | Open wound of larynx and trachea   | Diagnosis     | ICD-10-CM |
| S11.01   | Open wound of larynx   | Diagnosis     | ICD-10-CM |
| S11.011  | Laceration without foreign body of larynx  | Diagnosis     | ICD-10-CM |
| S11.011A | Laceration without foreign body of larynx, initial encounter                     | Diagnosis     | ICD-10-CM |
| S11.011D | Laceration without foreign body of larynx, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S11.011S | Laceration without foreign body of larynx, sequela                               | Diagnosis     | ICD-10-CM |
| S11.012  | Laceration with foreign body of larynx   | Diagnosis     | ICD-10-CM |
| S11.012A | Laceration with foreign body of larynx, initial encounter                        | Diagnosis     | ICD-10-CM |
| S11.012D | Laceration with foreign body of larynx, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S11.012S | Laceration with foreign body of larynx, sequela                                  | Diagnosis     | ICD-10-CM |
| S11.013  | Puncture wound without foreign body of larynx                                    | Diagnosis     | ICD-10-CM |
| S11.013A | Puncture wound without foreign body of larynx, initial encounter                 | Diagnosis     | ICD-10-CM |
| S11.013D | Puncture wound without foreign body of larynx, subsequent encounter              | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S11.013S | Puncture wound without foreign body of larynx, sequela                  | Diagnosis     | ICD-10-CM |
| S11.014  | Puncture wound with foreign body of larynx                              | Diagnosis     | ICD-10-CM |
| S11.014A | Puncture wound with foreign body of larynx, initial encounter           | Diagnosis     | ICD-10-CM |
| S11.014D | Puncture wound with foreign body of larynx, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S11.014S | Puncture wound with foreign body of larynx, sequela                     | Diagnosis     | ICD-10-CM |
| S11.015  | Open bite of larynx   | Diagnosis     | ICD-10-CM |
| S11.015A | Open bite of larynx, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S11.015D | Open bite of larynx, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S11.015S | Open bite of larynx, sequela  | Diagnosis     | ICD-10-CM |
| S11.019  | Unspecified open wound of larynx  | Diagnosis     | ICD-10-CM |
| S11.019A | Unspecified open wound of larynx, initial encounter                     | Diagnosis     | ICD-10-CM |
| S11.019D | Unspecified open wound of larynx, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S11.019S | Unspecified open wound of larynx, sequela                               | Diagnosis     | ICD-10-CM |
| S11.02   | Open wound of trachea   | Diagnosis     | ICD-10-CM |
| S11.021  | Laceration without foreign body of trachea                              | Diagnosis     | ICD-10-CM |
| S11.021A | Laceration without foreign body of trachea, initial encounter           | Diagnosis     | ICD-10-CM |
| S11.021D | Laceration without foreign body of trachea, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S11.021S | Laceration without foreign body of trachea, sequela                     | Diagnosis     | ICD-10-CM |
| S11.022  | Laceration with foreign body of trachea                                 | Diagnosis     | ICD-10-CM |
| S11.022A | Laceration with foreign body of trachea, initial encounter              | Diagnosis     | ICD-10-CM |
| S11.022D | Laceration with foreign body of trachea, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S11.022S | Laceration with foreign body of trachea, sequela                        | Diagnosis     | ICD-10-CM |
| S11.023  | Puncture wound without foreign body of trachea                          | Diagnosis     | ICD-10-CM |
| S11.023A | Puncture wound without foreign body of trachea, initial encounter       | Diagnosis     | ICD-10-CM |
| S11.023D | Puncture wound without foreign body of trachea, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S11.023S | Puncture wound without foreign body of trachea, sequela                 | Diagnosis     | ICD-10-CM |
| S11.024  | Puncture wound with foreign body of trachea                             | Diagnosis     | ICD-10-CM |
| S11.024A | Puncture wound with foreign body of trachea, initial encounter          | Diagnosis     | ICD-10-CM |
| S11.024D | Puncture wound with foreign body of trachea, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S11.024S | Puncture wound with foreign body of trachea, sequela                    | Diagnosis     | ICD-10-CM |
| S11.025  | Open bite of trachea  | Diagnosis     | ICD-10-CM |
| S11.025A | Open bite of trachea, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S11.025D | Open bite of trachea, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S11.025S | Open bite of trachea, sequela   | Diagnosis     | ICD-10-CM |
| S11.029  | Unspecified open wound of trachea                                       | Diagnosis     | ICD-10-CM |
| S11.029A | Unspecified open wound of trachea, initial encounter                    | Diagnosis     | ICD-10-CM |
| S11.029D | Unspecified open wound of trachea, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S11.029S | Unspecified open wound of trachea, sequela                              | Diagnosis     | ICD-10-CM |
| S11.03   | Open wound of vocal cord  | Diagnosis     | ICD-10-CM |
| S11.031  | Laceration without foreign body of vocal cord                           | Diagnosis     | ICD-10-CM |
| S11.031A | Laceration without foreign body of vocal cord, initial encounter        | Diagnosis     | ICD-10-CM |
| S11.031D | Laceration without foreign body of vocal cord, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S11.031S | Laceration without foreign body of vocal cord, sequela                  | Diagnosis     | ICD-10-CM |
| S11.032  | Laceration with foreign body of vocal cord                              | Diagnosis     | ICD-10-CM |
| S11.032A | Laceration with foreign body of vocal cord, initial encounter           | Diagnosis     | ICD-10-CM |
| S11.032D | Laceration with foreign body of vocal cord, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S11.032S | Laceration with foreign body of vocal cord, sequela                     | Diagnosis     | ICD-10-CM |
| S11.033  | Puncture wound without foreign body of vocal cord                       | Diagnosis     | ICD-10-CM |
| S11.033A | Puncture wound without foreign body of vocal cord, initial encounter    | Diagnosis     | ICD-10-CM |
| S11.033D | Puncture wound without foreign body of vocal cord, subsequent encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S11.033S | Puncture wound without foreign body of vocal cord, sequela                              | Diagnosis     | ICD-10-CM |
| S11.034  | Puncture wound with foreign body of vocal cord  | Diagnosis     | ICD-10-CM |
| S11.034A | Puncture wound with foreign body of vocal cord, initial encounter                       | Diagnosis     | ICD-10-CM |
| S11.034D | Puncture wound with foreign body of vocal cord, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S11.034S | Puncture wound with foreign body of vocal cord, sequela                                 | Diagnosis     | ICD-10-CM |
| S11.035  | Open bite of vocal cord   | Diagnosis     | ICD-10-CM |
| S11.035A | Open bite of vocal cord, initial encounter  | Diagnosis     | ICD-10-CM |
| S11.035D | Open bite of vocal cord, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S11.035S | Open bite of vocal cord, sequela  | Diagnosis     | ICD-10-CM |
| S11.039  | Unspecified open wound of vocal cord  | Diagnosis     | ICD-10-CM |
| S11.039A | Unspecified open wound of vocal cord, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S11.039D | Unspecified open wound of vocal cord, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S11.039S | Unspecified open wound of vocal cord, sequela   | Diagnosis     | ICD-10-CM |
| S11.1    | Open wound of thyroid gland   | Diagnosis     | ICD-10-CM |
| S11.10   | Unspecified open wound of thyroid gland   | Diagnosis     | ICD-10-CM |
| S11.10XA | Unspecified open wound of thyroid gland, initial encounter                              | Diagnosis     | ICD-10-CM |
| S11.10XD | Unspecified open wound of thyroid gland, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S11.10XS | Unspecified open wound of thyroid gland, sequela  | Diagnosis     | ICD-10-CM |
| S11.11   | Laceration without foreign body of thyroid gland  | Diagnosis     | ICD-10-CM |
| S11.11XA | Laceration without foreign body of thyroid gland, initial encounter                     | Diagnosis     | ICD-10-CM |
| S11.11XD | Laceration without foreign body of thyroid gland, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S11.11XS | Laceration without foreign body of thyroid gland, sequela                               | Diagnosis     | ICD-10-CM |
| S11.12   | Laceration with foreign body of thyroid gland   | Diagnosis     | ICD-10-CM |
| S11.12XA | Laceration with foreign body of thyroid gland, initial encounter                        | Diagnosis     | ICD-10-CM |
| S11.12XD | Laceration with foreign body of thyroid gland, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S11.12XS | Laceration with foreign body of thyroid gland, sequela                                  | Diagnosis     | ICD-10-CM |
| S11.13   | Puncture wound without foreign body of thyroid gland                                    | Diagnosis     | ICD-10-CM |
| S11.13XA | Puncture wound without foreign body of thyroid gland, initial encounter                 | Diagnosis     | ICD-10-CM |
| S11.13XD | Puncture wound without foreign body of thyroid gland, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S11.13XS | Puncture wound without foreign body of thyroid gland, sequela                           | Diagnosis     | ICD-10-CM |
| S11.14   | Puncture wound with foreign body of thyroid gland                                       | Diagnosis     | ICD-10-CM |
| S11.14XA | Puncture wound with foreign body of thyroid gland, initial encounter                    | Diagnosis     | ICD-10-CM |
| S11.14XD | Puncture wound with foreign body of thyroid gland, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S11.14XS | Puncture wound with foreign body of thyroid gland, sequela                              | Diagnosis     | ICD-10-CM |
| S11.15   | Open bite of thyroid gland  | Diagnosis     | ICD-10-CM |
| S11.15XA | Open bite of thyroid gland, initial encounter   | Diagnosis     | ICD-10-CM |
| S11.15XD | Open bite of thyroid gland, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S11.15XS | Open bite of thyroid gland, sequela   | Diagnosis     | ICD-10-CM |
| S11.2    | Open wound of pharynx and cervical esophagus  | Diagnosis     | ICD-10-CM |
| S11.20   | Unspecified open wound of pharynx and cervical esophagus                                | Diagnosis     | ICD-10-CM |
| S11.20XA | Unspecified open wound of pharynx and cervical esophagus, initial encounter             | Diagnosis     | ICD-10-CM |
| S11.20XD | Unspecified open wound of pharynx and cervical esophagus, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S11.20XS | Unspecified open wound of pharynx and cervical esophagus, sequela                       | Diagnosis     | ICD-10-CM |
| S11.21   | Laceration without foreign body of pharynx and cervical esophagus                       | Diagnosis     | ICD-10-CM |
| S11.21XA | Laceration without foreign body of pharynx and cervical esophagus, initial encounter    | Diagnosis     | ICD-10-CM |
| S11.21XD | Laceration without foreign body of pharynx and cervical esophagus, subsequent encounter | Diagnosis     | ICD-10-CM |
| S11.21XS | Laceration without foreign body of pharynx and cervical esophagus, sequela              | Diagnosis     | ICD-10-CM |
| S11.22   | Laceration with foreign body of pharynx and cervical esophagus                          | Diagnosis     | ICD-10-CM |
| S11.22XA | Laceration with foreign body of pharynx and cervical esophagus, initial encounter       | Diagnosis     | ICD-10-CM |
| S11.22XD | Laceration with foreign body of pharynx and cervical esophagus, subsequent encounter    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S11.22XS | Laceration with foreign body of pharynx and cervical esophagus, sequela                     | Diagnosis     | ICD-10-CM |
| S11.23   | Puncture wound without foreign body of pharynx and cervical esophagus                       | Diagnosis     | ICD-10-CM |
| S11.23XA | Puncture wound without foreign body of pharynx and cervical esophagus, initial encounter    | Diagnosis     | ICD-10-CM |
| S11.23XD | Puncture wound without foreign body of pharynx and cervical esophagus, subsequent encounter | Diagnosis     | ICD-10-CM |
| S11.23XS | Puncture wound without foreign body of pharynx and cervical esophagus, sequela              | Diagnosis     | ICD-10-CM |
| S11.24   | Puncture wound with foreign body of pharynx and cervical esophagus                          | Diagnosis     | ICD-10-CM |
| S11.24XA | Puncture wound with foreign body of pharynx and cervical esophagus, initial encounter       | Diagnosis     | ICD-10-CM |
| S11.24XD | Puncture wound with foreign body of pharynx and cervical esophagus, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S11.24XS | Puncture wound with foreign body of pharynx and cervical esophagus, sequela                 | Diagnosis     | ICD-10-CM |
| S11.25   | Open bite of pharynx and cervical esophagus   | Diagnosis     | ICD-10-CM |
| S11.25XA | Open bite of pharynx and cervical esophagus, initial encounter                              | Diagnosis     | ICD-10-CM |
| S11.25XD | Open bite of pharynx and cervical esophagus, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S11.25XS | Open bite of pharynx and cervical esophagus, sequela  | Diagnosis     | ICD-10-CM |
| S11.8    | Open wound of other specified parts of neck   | Diagnosis     | ICD-10-CM |
| S11.80   | Unspecified open wound of other specified part of neck                                      | Diagnosis     | ICD-10-CM |
| S11.80XA | Unspecified open wound of other specified part of neck, initial encounter                   | Diagnosis     | ICD-10-CM |
| S11.80XD | Unspecified open wound of other specified part of neck, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S11.80XS | Unspecified open wound of other specified part of neck, sequela                             | Diagnosis     | ICD-10-CM |
| S11.81   | Laceration without foreign body of other specified part of neck                             | Diagnosis     | ICD-10-CM |
| S11.81XA | Laceration without foreign body of other specified part of neck, initial encounter          | Diagnosis     | ICD-10-CM |
| S11.81XD | Laceration without foreign body of other specified part of neck, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S11.81XS | Laceration without foreign body of other specified part of neck, sequela                    | Diagnosis     | ICD-10-CM |
| S11.82   | Laceration with foreign body of other specified part of neck                                | Diagnosis     | ICD-10-CM |
| S11.82XA | Laceration with foreign body of other specified part of neck, initial encounter             | Diagnosis     | ICD-10-CM |
| S11.82XD | Laceration with foreign body of other specified part of neck, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S11.82XS | Laceration with foreign body of other specified part of neck, sequela                       | Diagnosis     | ICD-10-CM |
| S11.83   | Puncture wound without foreign body of other specified part of neck                         | Diagnosis     | ICD-10-CM |
| S11.83XA | Puncture wound without foreign body of other specified part of neck, initial encounter      | Diagnosis     | ICD-10-CM |
| S11.83XD | Puncture wound without foreign body of other specified part of neck, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S11.83XS | Puncture wound without foreign body of other specified part of neck, sequela                | Diagnosis     | ICD-10-CM |
| S11.84   | Puncture wound with foreign body of other specified part of neck                            | Diagnosis     | ICD-10-CM |
| S11.84XA | Puncture wound with foreign body of other specified part of neck, initial encounter         | Diagnosis     | ICD-10-CM |
| S11.84XD | Puncture wound with foreign body of other specified part of neck, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S11.84XS | Puncture wound with foreign body of other specified part of neck, sequela                   | Diagnosis     | ICD-10-CM |
| S11.85   | Open bite of other specified part of neck   | Diagnosis     | ICD-10-CM |
| S11.85XA | Open bite of other specified part of neck, initial encounter                                | Diagnosis     | ICD-10-CM |
| S11.85XD | Open bite of other specified part of neck, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S11.85XS | Open bite of other specified part of neck, sequela  | Diagnosis     | ICD-10-CM |
| S11.89   | Other open wound of other specified part of neck  | Diagnosis     | ICD-10-CM |
| S11.89XA | Other open wound of other specified part of neck, initial encounter                         | Diagnosis     | ICD-10-CM |
| S11.89XD | Other open wound of other specified part of neck, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S11.89XS | Other open wound of other specified part of neck, sequela                                   | Diagnosis     | ICD-10-CM |
| S11.9    | Open wound of unspecified part of neck  | Diagnosis     | ICD-10-CM |
| S11.90   | Unspecified open wound of unspecified part of neck  | Diagnosis     | ICD-10-CM |
| S11.90XA | Unspecified open wound of unspecified part of neck, initial encounter                       | Diagnosis     | ICD-10-CM |
| S11.90XD | Unspecified open wound of unspecified part of neck, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S11.90XS | Unspecified open wound of unspecified part of neck, sequela                                 | Diagnosis     | ICD-10-CM |
| S11.91   | Laceration without foreign body of unspecified part of neck                                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S11.91XA | Laceration without foreign body of unspecified part of neck, initial encounter                                       | Diagnosis     | ICD-10-CM |
| S11.91XD | Laceration without foreign body of unspecified part of neck, subsequent encounter                                    | Diagnosis     | ICD-10-CM |
| S11.91XS | Laceration without foreign body of unspecified part of neck, sequela   | Diagnosis     | ICD-10-CM |
| S11.92   | Laceration with foreign body of unspecified part of neck   | Diagnosis     | ICD-10-CM |
| S11.92XA | Laceration with foreign body of unspecified part of neck, initial encounter  | Diagnosis     | ICD-10-CM |
| S11.92XD | Laceration with foreign body of unspecified part of neck, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S11.92XS | Laceration with foreign body of unspecified part of neck, sequela  | Diagnosis     | ICD-10-CM |
| S11.93   | Puncture wound without foreign body of unspecified part of neck  | Diagnosis     | ICD-10-CM |
| S11.93XA | Puncture wound without foreign body of unspecified part of neck, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S11.93XD | Puncture wound without foreign body of unspecified part of neck, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S11.93XS | Puncture wound without foreign body of unspecified part of neck, sequela   | Diagnosis     | ICD-10-CM |
| S11.94   | Puncture wound with foreign body of unspecified part of neck   | Diagnosis     | ICD-10-CM |
| S11.94XA | Puncture wound with foreign body of unspecified part of neck, initial encounter                                      | Diagnosis     | ICD-10-CM |
| S11.94XD | Puncture wound with foreign body of unspecified part of neck, subsequent encounter                                   | Diagnosis     | ICD-10-CM |
| S11.94XS | Puncture wound with foreign body of unspecified part of neck, sequela  | Diagnosis     | ICD-10-CM |
| S11.95   | Open bite of unspecified part of neck  | Diagnosis     | ICD-10-CM |
| S11.95XA | Open bite of unspecified part of neck, initial encounter   | Diagnosis     | ICD-10-CM |
| S11.95XD | Open bite of unspecified part of neck, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S11.95XS | Open bite of unspecified part of neck, sequela   | Diagnosis     | ICD-10-CM |
| S12      | Fracture of cervical vertebra and other parts of neck  | Diagnosis     | ICD-10-CM |
| S12.0    | Fracture of first cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.00   | Unspecified fracture of first cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.000  | Unspecified displaced fracture of first cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.000A | Unspecified displaced fracture of first cervical vertebra, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S12.000B | Unspecified displaced fracture of first cervical vertebra, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S12.000D | Unspecified displaced fracture of first cervical vertebra, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S12.000G | Unspecified displaced fracture of first cervical vertebra, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S12.000K | Unspecified displaced fracture of first cervical vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S12.000S | Unspecified displaced fracture of first cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.001  | Unspecified nondisplaced fracture of first cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.001A | Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S12.001B | Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S12.001D | Unspecified nondisplaced fracture of first cervical vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S12.001G | Unspecified nondisplaced fracture of first cervical vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S12.001K | Unspecified nondisplaced fracture of first cervical vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S12.001S | Unspecified nondisplaced fracture of first cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.01   | Stable burst fracture of first cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.01XA | Stable burst fracture of first cervical vertebra, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S12.01XB | Stable burst fracture of first cervical vertebra, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S12.01XD | Stable burst fracture of first cervical vertebra, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S12.01XG | Stable burst fracture of first cervical vertebra, subsequent encounter for fracture with delayed healing                | Diagnosis     | ICD-10-CM |
| S12.01XK | Stable burst fracture of first cervical vertebra, subsequent encounter for fracture with nonunion                       | Diagnosis     | ICD-10-CM |
| S12.01XS | Stable burst fracture of first cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.02   | Unstable burst fracture of first cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.02XA | Unstable burst fracture of first cervical vertebra, initial encounter for closed fracture                               | Diagnosis     | ICD-10-CM |
| S12.02XB | Unstable burst fracture of first cervical vertebra, initial encounter for open fracture                                 | Diagnosis     | ICD-10-CM |
| S12.02XD | Unstable burst fracture of first cervical vertebra, subsequent encounter for fracture with routine healing              | Diagnosis     | ICD-10-CM |
| S12.02XG | Unstable burst fracture of first cervical vertebra, subsequent encounter for fracture with delayed healing              | Diagnosis     | ICD-10-CM |
| S12.02XK | Unstable burst fracture of first cervical vertebra, subsequent encounter for fracture with nonunion                     | Diagnosis     | ICD-10-CM |
| S12.02XS | Unstable burst fracture of first cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.03   | Posterior arch fracture of first cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.030  | Displaced posterior arch fracture of first cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.030A | Displaced posterior arch fracture of first cervical vertebra, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S12.030B | Displaced posterior arch fracture of first cervical vertebra, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S12.030D | Displaced posterior arch fracture of first cervical vertebra, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S12.030G | Displaced posterior arch fracture of first cervical vertebra, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S12.030K | Displaced posterior arch fracture of first cervical vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S12.030S | Displaced posterior arch fracture of first cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.031  | Nondisplaced posterior arch fracture of first cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.031A | Nondisplaced posterior arch fracture of first cervical vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S12.031B | Nondisplaced posterior arch fracture of first cervical vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S12.031D | Nondisplaced posterior arch fracture of first cervical vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S12.031G | Nondisplaced posterior arch fracture of first cervical vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S12.031K | Nondisplaced posterior arch fracture of first cervical vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S12.031S | Nondisplaced posterior arch fracture of first cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.04   | Lateral mass fracture of first cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.040  | Displaced lateral mass fracture of first cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.040A | Displaced lateral mass fracture of first cervical vertebra, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S12.040B | Displaced lateral mass fracture of first cervical vertebra, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S12.040D | Displaced lateral mass fracture of first cervical vertebra, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S12.040G | Displaced lateral mass fracture of first cervical vertebra, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S12.040K | Displaced lateral mass fracture of first cervical vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S12.040S | Displaced lateral mass fracture of first cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.041  | Nondisplaced lateral mass fracture of first cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.041A | Nondisplaced lateral mass fracture of first cervical vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S12.041B | Nondisplaced lateral mass fracture of first cervical vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S12.041D | Nondisplaced lateral mass fracture of first cervical vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S12.041G | Nondisplaced lateral mass fracture of first cervical vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S12.041K | Nondisplaced lateral mass fracture of first cervical vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S12.041S | Nondisplaced lateral mass fracture of first cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.09   | Other fracture of first cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.090  | Other displaced fracture of first cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.090A | Other displaced fracture of first cervical vertebra, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S12.090B | Other displaced fracture of first cervical vertebra, initial encounter for open fracture                              | Diagnosis     | ICD-10-CM |
| S12.090D | Other displaced fracture of first cervical vertebra, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S12.090G | Other displaced fracture of first cervical vertebra, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S12.090K | Other displaced fracture of first cervical vertebra, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S12.090S | Other displaced fracture of first cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.091  | Other nondisplaced fracture of first cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.091A | Other nondisplaced fracture of first cervical vertebra, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S12.091B | Other nondisplaced fracture of first cervical vertebra, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S12.091D | Other nondisplaced fracture of first cervical vertebra, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S12.091G | Other nondisplaced fracture of first cervical vertebra, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S12.091K | Other nondisplaced fracture of first cervical vertebra, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S12.091S | Other nondisplaced fracture of first cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.1    | Fracture of second cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.10   | Unspecified fracture of second cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.100  | Unspecified displaced fracture of second cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.100A | Unspecified displaced fracture of second cervical vertebra, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S12.100B | Unspecified displaced fracture of second cervical vertebra, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S12.100D | Unspecified displaced fracture of second cervical vertebra, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S12.100G | Unspecified displaced fracture of second cervical vertebra, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S12.100K | Unspecified displaced fracture of second cervical vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S12.100S | Unspecified displaced fracture of second cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S12.101  | Unspecified nondisplaced fracture of second cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.101A | Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S12.101B | Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S12.101D | Unspecified nondisplaced fracture of second cervical vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S12.101G | Unspecified nondisplaced fracture of second cervical vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S12.101K | Unspecified nondisplaced fracture of second cervical vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S12.101S | Unspecified nondisplaced fracture of second cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.11   | Type II dens fracture   | Diagnosis     | ICD-10-CM |
| S12.110  | Anterior displaced Type II dens fracture  | Diagnosis     | ICD-10-CM |
| S12.110A | Anterior displaced Type II dens fracture, initial encounter for closed fracture                                       | Diagnosis     | ICD-10-CM |
| S12.110B | Anterior displaced Type II dens fracture, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S12.110D | Anterior displaced Type II dens fracture, subsequent encounter for fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S12.110G | Anterior displaced Type II dens fracture, subsequent encounter for fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S12.110K | Anterior displaced Type II dens fracture, subsequent encounter for fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S12.110S | Anterior displaced Type II dens fracture, sequela   | Diagnosis     | ICD-10-CM |
| S12.111  | Posterior displaced Type II dens fracture   | Diagnosis     | ICD-10-CM |
| S12.111A | Posterior displaced Type II dens fracture, initial encounter for closed fracture                                      | Diagnosis     | ICD-10-CM |
| S12.111B | Posterior displaced Type II dens fracture, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S12.111D | Posterior displaced Type II dens fracture, subsequent encounter for fracture with routine healing                     | Diagnosis     | ICD-10-CM |
| S12.111G | Posterior displaced Type II dens fracture, subsequent encounter for fracture with delayed healing                     | Diagnosis     | ICD-10-CM |
| S12.111K | Posterior displaced Type II dens fracture, subsequent encounter for fracture with nonunion                            | Diagnosis     | ICD-10-CM |
| S12.111S | Posterior displaced Type II dens fracture, sequela  | Diagnosis     | ICD-10-CM |
| S12.112  | Nondisplaced Type II dens fracture  | Diagnosis     | ICD-10-CM |
| S12.112A | Nondisplaced Type II dens fracture, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S12.112B | Nondisplaced Type II dens fracture, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S12.112D | Nondisplaced Type II dens fracture, subsequent encounter for fracture with routine healing                            | Diagnosis     | ICD-10-CM |
| S12.112G | Nondisplaced Type II dens fracture, subsequent encounter for fracture with delayed healing                            | Diagnosis     | ICD-10-CM |
| S12.112K | Nondisplaced Type II dens fracture, subsequent encounter for fracture with nonunion                                   | Diagnosis     | ICD-10-CM |
| S12.112S | Nondisplaced Type II dens fracture, sequela   | Diagnosis     | ICD-10-CM |
| S12.12   | Other dens fracture   | Diagnosis     | ICD-10-CM |
| S12.120  | Other displaced dens fracture   | Diagnosis     | ICD-10-CM |
| S12.120A | Other displaced dens fracture, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S12.120B | Other displaced dens fracture, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S12.120D | Other displaced dens fracture, subsequent encounter for fracture with routine healing                                 | Diagnosis     | ICD-10-CM |
| S12.120G | Other displaced dens fracture, subsequent encounter for fracture with delayed healing                                 | Diagnosis     | ICD-10-CM |
| S12.120K | Other displaced dens fracture, subsequent encounter for fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S12.120S | Other displaced dens fracture, sequela  | Diagnosis     | ICD-10-CM |
| S12.121  | Other nondisplaced dens fracture  | Diagnosis     | ICD-10-CM |
| S12.121A | Other nondisplaced dens fracture, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S12.121B | Other nondisplaced dens fracture, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S12.121D | Other nondisplaced dens fracture, subsequent encounter for fracture with routine healing                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S12.121G | Other nondisplaced dens fracture, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S12.121K | Other nondisplaced dens fracture, subsequent encounter for fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S12.121S | Other nondisplaced dens fracture, sequela  | Diagnosis     | ICD-10-CM |
| S12.13   | Unspecified traumatic spondylolisthesis of second cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.130  | Unspecified traumatic displaced spondylolisthesis of second cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.130A | Unspecified traumatic displaced spondylolisthesis of second cervical vertebra, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S12.130B | Unspecified traumatic displaced spondylolisthesis of second cervical vertebra, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S12.130D | Unspecified traumatic displaced spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S12.130G | Unspecified traumatic displaced spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S12.130K | Unspecified traumatic displaced spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S12.130S | Unspecified traumatic displaced spondylolisthesis of second cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.131  | Unspecified traumatic nondisplaced spondylolisthesis of second cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.131A | Unspecified traumatic nondisplaced spondylolisthesis of second cervical vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S12.131B | Unspecified traumatic nondisplaced spondylolisthesis of second cervical vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S12.131D | Unspecified traumatic nondisplaced spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S12.131G | Unspecified traumatic nondisplaced spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S12.131K | Unspecified traumatic nondisplaced spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S12.131S | Unspecified traumatic nondisplaced spondylolisthesis of second cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.14   | Type III traumatic spondylolisthesis of second cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.14XA | Type III traumatic spondylolisthesis of second cervical vertebra, initial encounter for closed fracture                                  | Diagnosis     | ICD-10-CM |
| S12.14XB | Type III traumatic spondylolisthesis of second cervical vertebra, initial encounter for open fracture                                    | Diagnosis     | ICD-10-CM |
| S12.14XD | Type III traumatic spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with routine healing                 | Diagnosis     | ICD-10-CM |
| S12.14XG | Type III traumatic spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with delayed healing                 | Diagnosis     | ICD-10-CM |
| S12.14XK | Type III traumatic spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with nonunion                        | Diagnosis     | ICD-10-CM |
| S12.14XS | Type III traumatic spondylolisthesis of second cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.15   | Other traumatic spondylolisthesis of second cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.150  | Other traumatic displaced spondylolisthesis of second cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.150A | Other traumatic displaced spondylolisthesis of second cervical vertebra, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S12.150B | Other traumatic displaced spondylolisthesis of second cervical vertebra, initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |
| S12.150D | Other traumatic displaced spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S12.150G | Other traumatic displaced spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S12.150K | Other traumatic displaced spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S12.150S | Other traumatic displaced spondylolisthesis of second cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.151  | Other traumatic nondisplaced spondylolisthesis of second cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.151A | Other traumatic nondisplaced spondylolisthesis of second cervical vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S12.151B | Other traumatic nondisplaced spondylolisthesis of second cervical vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S12.151D | Other traumatic nondisplaced spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S12.151G | Other traumatic nondisplaced spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S12.151K | Other traumatic nondisplaced spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S12.151S | Other traumatic nondisplaced spondylolisthesis of second cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.19   | Other fracture of second cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.190  | Other displaced fracture of second cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.190A | Other displaced fracture of second cervical vertebra, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S12.190B | Other displaced fracture of second cervical vertebra, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S12.190D | Other displaced fracture of second cervical vertebra, subsequent encounter for fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S12.190G | Other displaced fracture of second cervical vertebra, subsequent encounter for fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S12.190K | Other displaced fracture of second cervical vertebra, subsequent encounter for fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S12.190S | Other displaced fracture of second cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.191  | Other nondisplaced fracture of second cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.191A | Other nondisplaced fracture of second cervical vertebra, initial encounter for closed fracture                                     | Diagnosis     | ICD-10-CM |
| S12.191B | Other nondisplaced fracture of second cervical vertebra, initial encounter for open fracture                                       | Diagnosis     | ICD-10-CM |
| S12.191D | Other nondisplaced fracture of second cervical vertebra, subsequent encounter for fracture with routine healing                    | Diagnosis     | ICD-10-CM |
| S12.191G | Other nondisplaced fracture of second cervical vertebra, subsequent encounter for fracture with delayed healing                    | Diagnosis     | ICD-10-CM |
| S12.191K | Other nondisplaced fracture of second cervical vertebra, subsequent encounter for fracture with nonunion                           | Diagnosis     | ICD-10-CM |
| S12.191S | Other nondisplaced fracture of second cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.2    | Fracture of third cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.20   | Unspecified fracture of third cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.200  | Unspecified displaced fracture of third cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.200A | Unspecified displaced fracture of third cervical vertebra, initial encounter for closed fracture                                   | Diagnosis     | ICD-10-CM |
| S12.200B | Unspecified displaced fracture of third cervical vertebra, initial encounter for open fracture                                     | Diagnosis     | ICD-10-CM |
| S12.200D | Unspecified displaced fracture of third cervical vertebra, subsequent encounter for fracture with routine healing                  | Diagnosis     | ICD-10-CM |
| S12.200G | Unspecified displaced fracture of third cervical vertebra, subsequent encounter for fracture with delayed healing                  | Diagnosis     | ICD-10-CM |
| S12.200K | Unspecified displaced fracture of third cervical vertebra, subsequent encounter for fracture with nonunion                         | Diagnosis     | ICD-10-CM |
| S12.200S | Unspecified displaced fracture of third cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S12.201  | Unspecified nondisplaced fracture of third cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.201A | Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for closed fracture                                     | Diagnosis     | ICD-10-CM |
| S12.201B | Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for open fracture                                       | Diagnosis     | ICD-10-CM |
| S12.201D | Unspecified nondisplaced fracture of third cervical vertebra, subsequent encounter for fracture with routine healing                    | Diagnosis     | ICD-10-CM |
| S12.201G | Unspecified nondisplaced fracture of third cervical vertebra, subsequent encounter for fracture with delayed healing                    | Diagnosis     | ICD-10-CM |
| S12.201K | Unspecified nondisplaced fracture of third cervical vertebra, subsequent encounter for fracture with nonunion                           | Diagnosis     | ICD-10-CM |
| S12.201S | Unspecified nondisplaced fracture of third cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.23   | Unspecified traumatic spondylolisthesis of third cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.230  | Unspecified traumatic displaced spondylolisthesis of third cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.230A | Unspecified traumatic displaced spondylolisthesis of third cervical vertebra, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S12.230B | Unspecified traumatic displaced spondylolisthesis of third cervical vertebra, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S12.230D | Unspecified traumatic displaced spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S12.230G | Unspecified traumatic displaced spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S12.230K | Unspecified traumatic displaced spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S12.230S | Unspecified traumatic displaced spondylolisthesis of third cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.231  | Unspecified traumatic nondisplaced spondylolisthesis of third cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.231A | Unspecified traumatic nondisplaced spondylolisthesis of third cervical vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S12.231B | Unspecified traumatic nondisplaced spondylolisthesis of third cervical vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S12.231D | Unspecified traumatic nondisplaced spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S12.231G | Unspecified traumatic nondisplaced spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S12.231K | Unspecified traumatic nondisplaced spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S12.231S | Unspecified traumatic nondisplaced spondylolisthesis of third cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.24   | Type III traumatic spondylolisthesis of third cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.24XA | Type III traumatic spondylolisthesis of third cervical vertebra, initial encounter for closed fracture                                  | Diagnosis     | ICD-10-CM |
| S12.24XB | Type III traumatic spondylolisthesis of third cervical vertebra, initial encounter for open fracture                                    | Diagnosis     | ICD-10-CM |
| S12.24XD | Type III traumatic spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with routine healing                 | Diagnosis     | ICD-10-CM |
| S12.24XG | Type III traumatic spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with delayed healing                 | Diagnosis     | ICD-10-CM |
| S12.24XK | Type III traumatic spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with nonunion                        | Diagnosis     | ICD-10-CM |
| S12.24XS | Type III traumatic spondylolisthesis of third cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.25   | Other traumatic spondylolisthesis of third cervical vertebra  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S12.250  | Other traumatic displaced spondylolisthesis of third cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.250A | Other traumatic displaced spondylolisthesis of third cervical vertebra, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S12.250B | Other traumatic displaced spondylolisthesis of third cervical vertebra, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S12.250D | Other traumatic displaced spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S12.250G | Other traumatic displaced spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S12.250K | Other traumatic displaced spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S12.250S | Other traumatic displaced spondylolisthesis of third cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.251  | Other traumatic nondisplaced spondylolisthesis of third cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.251A | Other traumatic nondisplaced spondylolisthesis of third cervical vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S12.251B | Other traumatic nondisplaced spondylolisthesis of third cervical vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S12.251D | Other traumatic nondisplaced spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S12.251G | Other traumatic nondisplaced spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S12.251K | Other traumatic nondisplaced spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S12.251S | Other traumatic nondisplaced spondylolisthesis of third cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.29   | Other fracture of third cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.290  | Other displaced fracture of third cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.290A | Other displaced fracture of third cervical vertebra, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S12.290B | Other displaced fracture of third cervical vertebra, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S12.290D | Other displaced fracture of third cervical vertebra, subsequent encounter for fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S12.290G | Other displaced fracture of third cervical vertebra, subsequent encounter for fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S12.290K | Other displaced fracture of third cervical vertebra, subsequent encounter for fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S12.290S | Other displaced fracture of third cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.291  | Other nondisplaced fracture of third cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.291A | Other nondisplaced fracture of third cervical vertebra, initial encounter for closed fracture                                     | Diagnosis     | ICD-10-CM |
| S12.291B | Other nondisplaced fracture of third cervical vertebra, initial encounter for open fracture                                       | Diagnosis     | ICD-10-CM |
| S12.291D | Other nondisplaced fracture of third cervical vertebra, subsequent encounter for fracture with routine healing                    | Diagnosis     | ICD-10-CM |
| S12.291G | Other nondisplaced fracture of third cervical vertebra, subsequent encounter for fracture with delayed healing                    | Diagnosis     | ICD-10-CM |
| S12.291K | Other nondisplaced fracture of third cervical vertebra, subsequent encounter for fracture with nonunion                           | Diagnosis     | ICD-10-CM |
| S12.291S | Other nondisplaced fracture of third cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.3    | Fracture of fourth cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.30   | Unspecified fracture of fourth cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.300  | Unspecified displaced fracture of fourth cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.300A | Unspecified displaced fracture of fourth cervical vertebra, initial encounter for closed fracture                                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S12.300B | Unspecified displaced fracture of fourth cervical vertebra, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S12.300D | Unspecified displaced fracture of fourth cervical vertebra, subsequent encounter for fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S12.300G | Unspecified displaced fracture of fourth cervical vertebra, subsequent encounter for fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S12.300K | Unspecified displaced fracture of fourth cervical vertebra, subsequent encounter for fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S12.300S | Unspecified displaced fracture of fourth cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.301  | Unspecified nondisplaced fracture of fourth cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.301A | Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for closed fracture                                     | Diagnosis     | ICD-10-CM |
| S12.301B | Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for open fracture                                       | Diagnosis     | ICD-10-CM |
| S12.301D | Unspecified nondisplaced fracture of fourth cervical vertebra, subsequent encounter for fracture with routine healing                    | Diagnosis     | ICD-10-CM |
| S12.301G | Unspecified nondisplaced fracture of fourth cervical vertebra, subsequent encounter for fracture with delayed healing                    | Diagnosis     | ICD-10-CM |
| S12.301K | Unspecified nondisplaced fracture of fourth cervical vertebra, subsequent encounter for fracture with nonunion                           | Diagnosis     | ICD-10-CM |
| S12.301S | Unspecified nondisplaced fracture of fourth cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.33   | Unspecified traumatic spondylolisthesis of fourth cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.330  | Unspecified traumatic displaced spondylolisthesis of fourth cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.330A | Unspecified traumatic displaced spondylolisthesis of fourth cervical vertebra, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S12.330B | Unspecified traumatic displaced spondylolisthesis of fourth cervical vertebra, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S12.330D | Unspecified traumatic displaced spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S12.330G | Unspecified traumatic displaced spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S12.330K | Unspecified traumatic displaced spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S12.330S | Unspecified traumatic displaced spondylolisthesis of fourth cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.331  | Unspecified traumatic nondisplaced spondylolisthesis of fourth cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.331A | Unspecified traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S12.331B | Unspecified traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S12.331D | Unspecified traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S12.331G | Unspecified traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S12.331K | Unspecified traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S12.331S | Unspecified traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.34   | Type III traumatic spondylolisthesis of fourth cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.34XA | Type III traumatic spondylolisthesis of fourth cervical vertebra, initial encounter for closed fracture                                  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S12.34XB | Type III traumatic spondylolisthesis of fourth cervical vertebra, initial encounter for open fracture                              | Diagnosis     | ICD-10-CM |
| S12.34XD | Type III traumatic spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S12.34XG | Type III traumatic spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S12.34XK | Type III traumatic spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S12.34XS | Type III traumatic spondylolisthesis of fourth cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.35   | Other traumatic spondylolisthesis of fourth cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.350  | Other traumatic displaced spondylolisthesis of fourth cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.350A | Other traumatic displaced spondylolisthesis of fourth cervical vertebra, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S12.350B | Other traumatic displaced spondylolisthesis of fourth cervical vertebra, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S12.350D | Other traumatic displaced spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S12.350G | Other traumatic displaced spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S12.350K | Other traumatic displaced spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S12.350S | Other traumatic displaced spondylolisthesis of fourth cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.351  | Other traumatic nondisplaced spondylolisthesis of fourth cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.351A | Other traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S12.351B | Other traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S12.351D | Other traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S12.351G | Other traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S12.351K | Other traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S12.351S | Other traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.39   | Other fracture of fourth cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.390  | Other displaced fracture of fourth cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.390A | Other displaced fracture of fourth cervical vertebra, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S12.390B | Other displaced fracture of fourth cervical vertebra, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S12.390D | Other displaced fracture of fourth cervical vertebra, subsequent encounter for fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S12.390G | Other displaced fracture of fourth cervical vertebra, subsequent encounter for fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S12.390K | Other displaced fracture of fourth cervical vertebra, subsequent encounter for fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S12.390S | Other displaced fracture of fourth cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.391  | Other nondisplaced fracture of fourth cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.391A | Other nondisplaced fracture of fourth cervical vertebra, initial encounter for closed fracture                                     | Diagnosis     | ICD-10-CM |
| S12.391B | Other nondisplaced fracture of fourth cervical vertebra, initial encounter for open fracture                                       | Diagnosis     | ICD-10-CM |
| S12.391D | Other nondisplaced fracture of fourth cervical vertebra, subsequent encounter for fracture with routine healing                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S12.391G | Other nondisplaced fracture of fourth cervical vertebra, subsequent encounter for fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S12.391K | Other nondisplaced fracture of fourth cervical vertebra, subsequent encounter for fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S12.391S | Other nondisplaced fracture of fourth cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.4    | Fracture of fifth cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.40   | Unspecified fracture of fifth cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.400  | Unspecified displaced fracture of fifth cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.400A | Unspecified displaced fracture of fifth cervical vertebra, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S12.400B | Unspecified displaced fracture of fifth cervical vertebra, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S12.400D | Unspecified displaced fracture of fifth cervical vertebra, subsequent encounter for fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S12.400G | Unspecified displaced fracture of fifth cervical vertebra, subsequent encounter for fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S12.400K | Unspecified displaced fracture of fifth cervical vertebra, subsequent encounter for fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S12.400S | Unspecified displaced fracture of fifth cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.401  | Unspecified nondisplaced fracture of fifth cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.401A | Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for closed fracture                                     | Diagnosis     | ICD-10-CM |
| S12.401B | Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for open fracture                                       | Diagnosis     | ICD-10-CM |
| S12.401D | Unspecified nondisplaced fracture of fifth cervical vertebra, subsequent encounter for fracture with routine healing                    | Diagnosis     | ICD-10-CM |
| S12.401G | Unspecified nondisplaced fracture of fifth cervical vertebra, subsequent encounter for fracture with delayed healing                    | Diagnosis     | ICD-10-CM |
| S12.401K | Unspecified nondisplaced fracture of fifth cervical vertebra, subsequent encounter for fracture with nonunion                           | Diagnosis     | ICD-10-CM |
| S12.401S | Unspecified nondisplaced fracture of fifth cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.43   | Unspecified traumatic spondylolisthesis of fifth cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.430  | Unspecified traumatic displaced spondylolisthesis of fifth cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.430A | Unspecified traumatic displaced spondylolisthesis of fifth cervical vertebra, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S12.430B | Unspecified traumatic displaced spondylolisthesis of fifth cervical vertebra, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S12.430D | Unspecified traumatic displaced spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S12.430G | Unspecified traumatic displaced spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S12.430K | Unspecified traumatic displaced spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S12.430S | Unspecified traumatic displaced spondylolisthesis of fifth cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.431  | Unspecified traumatic nondisplaced spondylolisthesis of fifth cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.431A | Unspecified traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S12.431B | Unspecified traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S12.431D | Unspecified traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S12.431G | Unspecified traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S12.431K | Unspecified traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S12.431S | Unspecified traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.44   | Type III traumatic spondylolisthesis of fifth cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.44XA | Type III traumatic spondylolisthesis of fifth cervical vertebra, initial encounter for closed fracture                                  | Diagnosis     | ICD-10-CM |
| S12.44XB | Type III traumatic spondylolisthesis of fifth cervical vertebra, initial encounter for open fracture                                    | Diagnosis     | ICD-10-CM |
| S12.44XD | Type III traumatic spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with routine healing                 | Diagnosis     | ICD-10-CM |
| S12.44XG | Type III traumatic spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with delayed healing                 | Diagnosis     | ICD-10-CM |
| S12.44XK | Type III traumatic spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with nonunion                        | Diagnosis     | ICD-10-CM |
| S12.44XS | Type III traumatic spondylolisthesis of fifth cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.45   | Other traumatic spondylolisthesis of fifth cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.450  | Other traumatic displaced spondylolisthesis of fifth cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.450A | Other traumatic displaced spondylolisthesis of fifth cervical vertebra, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S12.450B | Other traumatic displaced spondylolisthesis of fifth cervical vertebra, initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |
| S12.450D | Other traumatic displaced spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S12.450G | Other traumatic displaced spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S12.450K | Other traumatic displaced spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S12.450S | Other traumatic displaced spondylolisthesis of fifth cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.451  | Other traumatic nondisplaced spondylolisthesis of fifth cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.451A | Other traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S12.451B | Other traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S12.451D | Other traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S12.451G | Other traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S12.451K | Other traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S12.451S | Other traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.49   | Other fracture of fifth cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.490  | Other displaced fracture of fifth cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.490A | Other displaced fracture of fifth cervical vertebra, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S12.490B | Other displaced fracture of fifth cervical vertebra, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S12.490D | Other displaced fracture of fifth cervical vertebra, subsequent encounter for fracture with routine healing                             | Diagnosis     | ICD-10-CM |
| S12.490G | Other displaced fracture of fifth cervical vertebra, subsequent encounter for fracture with delayed healing                             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S12.490K | Other displaced fracture of fifth cervical vertebra, subsequent encounter for fracture with nonunion                                 | Diagnosis     | ICD-10-CM |
| S12.490S | Other displaced fracture of fifth cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.491  | Other nondisplaced fracture of fifth cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.491A | Other nondisplaced fracture of fifth cervical vertebra, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S12.491B | Other nondisplaced fracture of fifth cervical vertebra, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S12.491D | Other nondisplaced fracture of fifth cervical vertebra, subsequent encounter for fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S12.491G | Other nondisplaced fracture of fifth cervical vertebra, subsequent encounter for fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S12.491K | Other nondisplaced fracture of fifth cervical vertebra, subsequent encounter for fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S12.491S | Other nondisplaced fracture of fifth cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.5    | Fracture of sixth cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.50   | Unspecified fracture of sixth cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.500  | Unspecified displaced fracture of sixth cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.500A | Unspecified displaced fracture of sixth cervical vertebra, initial encounter for closed fracture                                     | Diagnosis     | ICD-10-CM |
| S12.500B | Unspecified displaced fracture of sixth cervical vertebra, initial encounter for open fracture                                       | Diagnosis     | ICD-10-CM |
| S12.500D | Unspecified displaced fracture of sixth cervical vertebra, subsequent encounter for fracture with routine healing                    | Diagnosis     | ICD-10-CM |
| S12.500G | Unspecified displaced fracture of sixth cervical vertebra, subsequent encounter for fracture with delayed healing                    | Diagnosis     | ICD-10-CM |
| S12.500K | Unspecified displaced fracture of sixth cervical vertebra, subsequent encounter for fracture with nonunion                           | Diagnosis     | ICD-10-CM |
| S12.500S | Unspecified displaced fracture of sixth cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.501  | Unspecified nondisplaced fracture of sixth cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.501A | Unspecified nondisplaced fracture of sixth cervical vertebra, initial encounter for closed fracture                                  | Diagnosis     | ICD-10-CM |
| S12.501B | Unspecified nondisplaced fracture of sixth cervical vertebra, initial encounter for open fracture                                    | Diagnosis     | ICD-10-CM |
| S12.501D | Unspecified nondisplaced fracture of sixth cervical vertebra, subsequent encounter for fracture with routine healing                 | Diagnosis     | ICD-10-CM |
| S12.501G | Unspecified nondisplaced fracture of sixth cervical vertebra, subsequent encounter for fracture with delayed healing                 | Diagnosis     | ICD-10-CM |
| S12.501K | Unspecified nondisplaced fracture of sixth cervical vertebra, subsequent encounter for fracture with nonunion                        | Diagnosis     | ICD-10-CM |
| S12.501S | Unspecified nondisplaced fracture of sixth cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.53   | Unspecified traumatic spondylolisthesis of sixth cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.530  | Unspecified traumatic displaced spondylolisthesis of sixth cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.530A | Unspecified traumatic displaced spondylolisthesis of sixth cervical vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S12.530B | Unspecified traumatic displaced spondylolisthesis of sixth cervical vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S12.530D | Unspecified traumatic displaced spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S12.530G | Unspecified traumatic displaced spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S12.530K | Unspecified traumatic displaced spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S12.530S | Unspecified traumatic displaced spondylolisthesis of sixth cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.531  | Unspecified traumatic nondisplaced spondylolisthesis of sixth cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.531A | Unspecified traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S12.531B | Unspecified traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S12.531D | Unspecified traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S12.531G | Unspecified traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S12.531K | Unspecified traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S12.531S | Unspecified traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.54   | Type III traumatic spondylolisthesis of sixth cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.54XA | Type III traumatic spondylolisthesis of sixth cervical vertebra, initial encounter for closed fracture                                  | Diagnosis     | ICD-10-CM |
| S12.54XB | Type III traumatic spondylolisthesis of sixth cervical vertebra, initial encounter for open fracture                                    | Diagnosis     | ICD-10-CM |
| S12.54XD | Type III traumatic spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with routine healing                 | Diagnosis     | ICD-10-CM |
| S12.54XG | Type III traumatic spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with delayed healing                 | Diagnosis     | ICD-10-CM |
| S12.54XK | Type III traumatic spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with nonunion                        | Diagnosis     | ICD-10-CM |
| S12.54XS | Type III traumatic spondylolisthesis of sixth cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.55   | Other traumatic spondylolisthesis of sixth cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.550  | Other traumatic displaced spondylolisthesis of sixth cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.550A | Other traumatic displaced spondylolisthesis of sixth cervical vertebra, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S12.550B | Other traumatic displaced spondylolisthesis of sixth cervical vertebra, initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |
| S12.550D | Other traumatic displaced spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S12.550G | Other traumatic displaced spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S12.550K | Other traumatic displaced spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S12.550S | Other traumatic displaced spondylolisthesis of sixth cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.551  | Other traumatic nondisplaced spondylolisthesis of sixth cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.551A | Other traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S12.551B | Other traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S12.551D | Other traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S12.551G | Other traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S12.551K | Other traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S12.551S | Other traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S12.59   | Other fracture of sixth cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.590  | Other displaced fracture of sixth cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.590A | Other displaced fracture of sixth cervical vertebra, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S12.590B | Other displaced fracture of sixth cervical vertebra, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S12.590D | Other displaced fracture of sixth cervical vertebra, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S12.590G | Other displaced fracture of sixth cervical vertebra, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S12.590K | Other displaced fracture of sixth cervical vertebra, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S12.590S | Other displaced fracture of sixth cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.591  | Other nondisplaced fracture of sixth cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.591A | Other nondisplaced fracture of sixth cervical vertebra, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S12.591B | Other nondisplaced fracture of sixth cervical vertebra, initial encounter for open fracture                            | Diagnosis     | ICD-10-CM |
| S12.591D | Other nondisplaced fracture of sixth cervical vertebra, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S12.591G | Other nondisplaced fracture of sixth cervical vertebra, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S12.591K | Other nondisplaced fracture of sixth cervical vertebra, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S12.591S | Other nondisplaced fracture of sixth cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.6    | Fracture of seventh cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.60   | Unspecified fracture of seventh cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.600  | Unspecified displaced fracture of seventh cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.600A | Unspecified displaced fracture of seventh cervical vertebra, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S12.600B | Unspecified displaced fracture of seventh cervical vertebra, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S12.600D | Unspecified displaced fracture of seventh cervical vertebra, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S12.600G | Unspecified displaced fracture of seventh cervical vertebra, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S12.600K | Unspecified displaced fracture of seventh cervical vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S12.600S | Unspecified displaced fracture of seventh cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.601  | Unspecified nondisplaced fracture of seventh cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.601A | Unspecified nondisplaced fracture of seventh cervical vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S12.601B | Unspecified nondisplaced fracture of seventh cervical vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S12.601D | Unspecified nondisplaced fracture of seventh cervical vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S12.601G | Unspecified nondisplaced fracture of seventh cervical vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S12.601K | Unspecified nondisplaced fracture of seventh cervical vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S12.601S | Unspecified nondisplaced fracture of seventh cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.63   | Unspecified traumatic spondylolisthesis of seventh cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.630  | Unspecified traumatic displaced spondylolisthesis of seventh cervical vertebra   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S12.630A | Unspecified traumatic displaced spondylolisthesis of seventh cervical vertebra, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S12.630B | Unspecified traumatic displaced spondylolisthesis of seventh cervical vertebra, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S12.630D | Unspecified traumatic displaced spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S12.630G | Unspecified traumatic displaced spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S12.630K | Unspecified traumatic displaced spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S12.630S | Unspecified traumatic displaced spondylolisthesis of seventh cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.631  | Unspecified traumatic nondisplaced spondylolisthesis of seventh cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.631A | Unspecified traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S12.631B | Unspecified traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S12.631D | Unspecified traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S12.631G | Unspecified traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S12.631K | Unspecified traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S12.631S | Unspecified traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.64   | Type III traumatic spondylolisthesis of seventh cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.64XA | Type III traumatic spondylolisthesis of seventh cervical vertebra, initial encounter for closed fracture                                  | Diagnosis     | ICD-10-CM |
| S12.64XB | Type III traumatic spondylolisthesis of seventh cervical vertebra, initial encounter for open fracture                                    | Diagnosis     | ICD-10-CM |
| S12.64XD | Type III traumatic spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with routine healing                 | Diagnosis     | ICD-10-CM |
| S12.64XG | Type III traumatic spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with delayed healing                 | Diagnosis     | ICD-10-CM |
| S12.64XK | Type III traumatic spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with nonunion                        | Diagnosis     | ICD-10-CM |
| S12.64XS | Type III traumatic spondylolisthesis of seventh cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.65   | Other traumatic spondylolisthesis of seventh cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.650  | Other traumatic displaced spondylolisthesis of seventh cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.650A | Other traumatic displaced spondylolisthesis of seventh cervical vertebra, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S12.650B | Other traumatic displaced spondylolisthesis of seventh cervical vertebra, initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |
| S12.650D | Other traumatic displaced spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S12.650G | Other traumatic displaced spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S12.650K | Other traumatic displaced spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S12.650S | Other traumatic displaced spondylolisthesis of seventh cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.651  | Other traumatic nondisplaced spondylolisthesis of seventh cervical vertebra   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S12.651A | Other traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S12.651B | Other traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S12.651D | Other traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S12.651G | Other traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S12.651K | Other traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S12.651S | Other traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.69   | Other fracture of seventh cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.690  | Other displaced fracture of seventh cervical vertebra   | Diagnosis     | ICD-10-CM |
| S12.690A | Other displaced fracture of seventh cervical vertebra, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S12.690B | Other displaced fracture of seventh cervical vertebra, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S12.690D | Other displaced fracture of seventh cervical vertebra, subsequent encounter for fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S12.690G | Other displaced fracture of seventh cervical vertebra, subsequent encounter for fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S12.690K | Other displaced fracture of seventh cervical vertebra, subsequent encounter for fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S12.690S | Other displaced fracture of seventh cervical vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S12.691  | Other nondisplaced fracture of seventh cervical vertebra  | Diagnosis     | ICD-10-CM |
| S12.691A | Other nondisplaced fracture of seventh cervical vertebra, initial encounter for closed fracture                                     | Diagnosis     | ICD-10-CM |
| S12.691B | Other nondisplaced fracture of seventh cervical vertebra, initial encounter for open fracture                                       | Diagnosis     | ICD-10-CM |
| S12.691D | Other nondisplaced fracture of seventh cervical vertebra, subsequent encounter for fracture with routine healing                    | Diagnosis     | ICD-10-CM |
| S12.691G | Other nondisplaced fracture of seventh cervical vertebra, subsequent encounter for fracture with delayed healing                    | Diagnosis     | ICD-10-CM |
| S12.691K | Other nondisplaced fracture of seventh cervical vertebra, subsequent encounter for fracture with nonunion                           | Diagnosis     | ICD-10-CM |
| S12.691S | Other nondisplaced fracture of seventh cervical vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S12.8    | Fracture of other parts of neck   | Diagnosis     | ICD-10-CM |
| S12.8XXA | Fracture of other parts of neck, initial encounter  | Diagnosis     | ICD-10-CM |
| S12.8XXD | Fracture of other parts of neck, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S12.8XXS | Fracture of other parts of neck, sequela  | Diagnosis     | ICD-10-CM |
| S12.9    | Fracture of neck, unspecified   | Diagnosis     | ICD-10-CM |
| S12.9XXA | Fracture of neck, unspecified, initial encounter  | Diagnosis     | ICD-10-CM |
| S12.9XXD | Fracture of neck, unspecified, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S12.9XXS | Fracture of neck, unspecified, sequela  | Diagnosis     | ICD-10-CM |
| S13      | Dislocation and sprain of joints and ligaments at neck level  | Diagnosis     | ICD-10-CM |
| S13.0    | Traumatic rupture of cervical intervertebral disc   | Diagnosis     | ICD-10-CM |
| S13.0XXA | Traumatic rupture of cervical intervertebral disc, initial encounter  | Diagnosis     | ICD-10-CM |
| S13.0XXD | Traumatic rupture of cervical intervertebral disc, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S13.0XXS | Traumatic rupture of cervical intervertebral disc, sequela  | Diagnosis     | ICD-10-CM |
| S13.1    | Subluxation and dislocation of cervical vertebrae   | Diagnosis     | ICD-10-CM |
| S13.10   | Subluxation and dislocation of unspecified cervical vertebrae   | Diagnosis     | ICD-10-CM |
| S13.100  | Subluxation of unspecified cervical vertebrae   | Diagnosis     | ICD-10-CM |
| S13.100A | Subluxation of unspecified cervical vertebrae, initial encounter  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S13.100D | Subluxation of unspecified cervical vertebrae, subsequent encounter | Diagnosis     | ICD-10-CM |
| S13.100S | Subluxation of unspecified cervical vertebrae, sequela              | Diagnosis     | ICD-10-CM |
| S13.101  | Dislocation of unspecified cervical vertebrae                       | Diagnosis     | ICD-10-CM |
| S13.101A | Dislocation of unspecified cervical vertebrae, initial encounter    | Diagnosis     | ICD-10-CM |
| S13.101D | Dislocation of unspecified cervical vertebrae, subsequent encounter | Diagnosis     | ICD-10-CM |
| S13.101S | Dislocation of unspecified cervical vertebrae, sequela              | Diagnosis     | ICD-10-CM |
| S13.11   | Subluxation and dislocation of C0/C1 cervical vertebrae             | Diagnosis     | ICD-10-CM |
| S13.110  | Subluxation of C0/C1 cervical vertebrae                             | Diagnosis     | ICD-10-CM |
| S13.110A | Subluxation of C0/C1 cervical vertebrae, initial encounter          | Diagnosis     | ICD-10-CM |
| S13.110D | Subluxation of C0/C1 cervical vertebrae, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S13.110S | Subluxation of C0/C1 cervical vertebrae, sequela                    | Diagnosis     | ICD-10-CM |
| S13.111  | Dislocation of C0/C1 cervical vertebrae                             | Diagnosis     | ICD-10-CM |
| S13.111A | Dislocation of C0/C1 cervical vertebrae, initial encounter          | Diagnosis     | ICD-10-CM |
| S13.111D | Dislocation of C0/C1 cervical vertebrae, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S13.111S | Dislocation of C0/C1 cervical vertebrae, sequela                    | Diagnosis     | ICD-10-CM |
| S13.12   | Subluxation and dislocation of C1/C2 cervical vertebrae             | Diagnosis     | ICD-10-CM |
| S13.120  | Subluxation of C1/C2 cervical vertebrae                             | Diagnosis     | ICD-10-CM |
| S13.120A | Subluxation of C1/C2 cervical vertebrae, initial encounter          | Diagnosis     | ICD-10-CM |
| S13.120D | Subluxation of C1/C2 cervical vertebrae, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S13.120S | Subluxation of C1/C2 cervical vertebrae, sequela                    | Diagnosis     | ICD-10-CM |
| S13.121  | Dislocation of C1/C2 cervical vertebrae                             | Diagnosis     | ICD-10-CM |
| S13.121A | Dislocation of C1/C2 cervical vertebrae, initial encounter          | Diagnosis     | ICD-10-CM |
| S13.121D | Dislocation of C1/C2 cervical vertebrae, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S13.121S | Dislocation of C1/C2 cervical vertebrae, sequela                    | Diagnosis     | ICD-10-CM |
| S13.13   | Subluxation and dislocation of C2/C3 cervical vertebrae             | Diagnosis     | ICD-10-CM |
| S13.130  | Subluxation of C2/C3 cervical vertebrae                             | Diagnosis     | ICD-10-CM |
| S13.130A | Subluxation of C2/C3 cervical vertebrae, initial encounter          | Diagnosis     | ICD-10-CM |
| S13.130D | Subluxation of C2/C3 cervical vertebrae, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S13.130S | Subluxation of C2/C3 cervical vertebrae, sequela                    | Diagnosis     | ICD-10-CM |
| S13.131  | Dislocation of C2/C3 cervical vertebrae                             | Diagnosis     | ICD-10-CM |
| S13.131A | Dislocation of C2/C3 cervical vertebrae, initial encounter          | Diagnosis     | ICD-10-CM |
| S13.131D | Dislocation of C2/C3 cervical vertebrae, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S13.131S | Dislocation of C2/C3 cervical vertebrae, sequela                    | Diagnosis     | ICD-10-CM |
| S13.14   | Subluxation and dislocation of C3/C4 cervical vertebrae             | Diagnosis     | ICD-10-CM |
| S13.140  | Subluxation of C3/C4 cervical vertebrae                             | Diagnosis     | ICD-10-CM |
| S13.140A | Subluxation of C3/C4 cervical vertebrae, initial encounter          | Diagnosis     | ICD-10-CM |
| S13.140D | Subluxation of C3/C4 cervical vertebrae, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S13.140S | Subluxation of C3/C4 cervical vertebrae, sequela                    | Diagnosis     | ICD-10-CM |
| S13.141  | Dislocation of C3/C4 cervical vertebrae                             | Diagnosis     | ICD-10-CM |
| S13.141A | Dislocation of C3/C4 cervical vertebrae, initial encounter          | Diagnosis     | ICD-10-CM |
| S13.141D | Dislocation of C3/C4 cervical vertebrae, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S13.141S | Dislocation of C3/C4 cervical vertebrae, sequela                    | Diagnosis     | ICD-10-CM |
| S13.15   | Subluxation and dislocation of C4/C5 cervical vertebrae             | Diagnosis     | ICD-10-CM |
| S13.150  | Subluxation of C4/C5 cervical vertebrae                             | Diagnosis     | ICD-10-CM |
| S13.150A | Subluxation of C4/C5 cervical vertebrae, initial encounter          | Diagnosis     | ICD-10-CM |
| S13.150D | Subluxation of C4/C5 cervical vertebrae, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S13.150S | Subluxation of C4/C5 cervical vertebrae, sequela                    | Diagnosis     | ICD-10-CM |
| S13.151  | Dislocation of C4/C5 cervical vertebrae                             | Diagnosis     | ICD-10-CM |
| S13.151A | Dislocation of C4/C5 cervical vertebrae, initial encounter          | Diagnosis     | ICD-10-CM |
| S13.151D | Dislocation of C4/C5 cervical vertebrae, subsequent encounter       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S13.151S | Dislocation of C4/C5 cervical vertebrae, sequela                            | Diagnosis     | ICD-10-CM |
| S13.16   | Subluxation and dislocation of C5/C6 cervical vertebrae                     | Diagnosis     | ICD-10-CM |
| S13.160  | Subluxation of C5/C6 cervical vertebrae                                     | Diagnosis     | ICD-10-CM |
| S13.160A | Subluxation of C5/C6 cervical vertebrae, initial encounter                  | Diagnosis     | ICD-10-CM |
| S13.160D | Subluxation of C5/C6 cervical vertebrae, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S13.160S | Subluxation of C5/C6 cervical vertebrae, sequela                            | Diagnosis     | ICD-10-CM |
| S13.161  | Dislocation of C5/C6 cervical vertebrae                                     | Diagnosis     | ICD-10-CM |
| S13.161A | Dislocation of C5/C6 cervical vertebrae, initial encounter                  | Diagnosis     | ICD-10-CM |
| S13.161D | Dislocation of C5/C6 cervical vertebrae, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S13.161S | Dislocation of C5/C6 cervical vertebrae, sequela                            | Diagnosis     | ICD-10-CM |
| S13.17   | Subluxation and dislocation of C6/C7 cervical vertebrae                     | Diagnosis     | ICD-10-CM |
| S13.170  | Subluxation of C6/C7 cervical vertebrae                                     | Diagnosis     | ICD-10-CM |
| S13.170A | Subluxation of C6/C7 cervical vertebrae, initial encounter                  | Diagnosis     | ICD-10-CM |
| S13.170D | Subluxation of C6/C7 cervical vertebrae, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S13.170S | Subluxation of C6/C7 cervical vertebrae, sequela                            | Diagnosis     | ICD-10-CM |
| S13.171  | Dislocation of C6/C7 cervical vertebrae                                     | Diagnosis     | ICD-10-CM |
| S13.171A | Dislocation of C6/C7 cervical vertebrae, initial encounter                  | Diagnosis     | ICD-10-CM |
| S13.171D | Dislocation of C6/C7 cervical vertebrae, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S13.171S | Dislocation of C6/C7 cervical vertebrae, sequela                            | Diagnosis     | ICD-10-CM |
| S13.18   | Subluxation and dislocation of C7/T1 cervical vertebrae                     | Diagnosis     | ICD-10-CM |
| S13.180  | Subluxation of C7/T1 cervical vertebrae                                     | Diagnosis     | ICD-10-CM |
| S13.180A | Subluxation of C7/T1 cervical vertebrae, initial encounter                  | Diagnosis     | ICD-10-CM |
| S13.180D | Subluxation of C7/T1 cervical vertebrae, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S13.180S | Subluxation of C7/T1 cervical vertebrae, sequela                            | Diagnosis     | ICD-10-CM |
| S13.181  | Dislocation of C7/T1 cervical vertebrae                                     | Diagnosis     | ICD-10-CM |
| S13.181A | Dislocation of C7/T1 cervical vertebrae, initial encounter                  | Diagnosis     | ICD-10-CM |
| S13.181D | Dislocation of C7/T1 cervical vertebrae, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S13.181S | Dislocation of C7/T1 cervical vertebrae, sequela                            | Diagnosis     | ICD-10-CM |
| S13.2    | Dislocation of other and unspecified parts of neck                          | Diagnosis     | ICD-10-CM |
| S13.20   | Dislocation of unspecified parts of neck                                    | Diagnosis     | ICD-10-CM |
| S13.20XA | Dislocation of unspecified parts of neck, initial encounter                 | Diagnosis     | ICD-10-CM |
| S13.20XD | Dislocation of unspecified parts of neck, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S13.20XS | Dislocation of unspecified parts of neck, sequela                           | Diagnosis     | ICD-10-CM |
| S13.29   | Dislocation of other parts of neck  | Diagnosis     | ICD-10-CM |
| S13.29XA | Dislocation of other parts of neck, initial encounter                       | Diagnosis     | ICD-10-CM |
| S13.29XD | Dislocation of other parts of neck, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S13.29XS | Dislocation of other parts of neck, sequela                                 | Diagnosis     | ICD-10-CM |
| S13.4    | Sprain of ligaments of cervical spine                                       | Diagnosis     | ICD-10-CM |
| S13.4XXA | Sprain of ligaments of cervical spine, initial encounter                    | Diagnosis     | ICD-10-CM |
| S13.4XXD | Sprain of ligaments of cervical spine, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S13.4XXS | Sprain of ligaments of cervical spine, sequela                              | Diagnosis     | ICD-10-CM |
| S13.5    | Sprain of thyroid region  | Diagnosis     | ICD-10-CM |
| S13.5XXA | Sprain of thyroid region, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S13.5XXD | Sprain of thyroid region, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S13.5XXS | Sprain of thyroid region, sequela   | Diagnosis     | ICD-10-CM |
| S13.8    | Sprain of joints and ligaments of other parts of neck                       | Diagnosis     | ICD-10-CM |
| S13.8XXA | Sprain of joints and ligaments of other parts of neck, initial encounter    | Diagnosis     | ICD-10-CM |
| S13.8XXD | Sprain of joints and ligaments of other parts of neck, subsequent encounter | Diagnosis     | ICD-10-CM |
| S13.8XXS | Sprain of joints and ligaments of other parts of neck, sequela              | Diagnosis     | ICD-10-CM |
| S13.9    | Sprain of joints and ligaments of unspecified parts of neck                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S13.9XXA | Sprain of joints and ligaments of unspecified parts of neck, initial encounter        | Diagnosis     | ICD-10-CM |
| S13.9XXD | Sprain of joints and ligaments of unspecified parts of neck, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S13.9XXS | Sprain of joints and ligaments of unspecified parts of neck, sequela                  | Diagnosis     | ICD-10-CM |
| S14      | Injury of nerves and spinal cord at neck level  | Diagnosis     | ICD-10-CM |
| S14.0    | Concussion and edema of cervical spinal cord  | Diagnosis     | ICD-10-CM |
| S14.0XXA | Concussion and edema of cervical spinal cord, initial encounter                       | Diagnosis     | ICD-10-CM |
| S14.0XXD | Concussion and edema of cervical spinal cord, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S14.0XXS | Concussion and edema of cervical spinal cord, sequela                                 | Diagnosis     | ICD-10-CM |
| S14.1    | Other and unspecified injuries of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.10   | Unspecified injury of cervical spinal cord  | Diagnosis     | ICD-10-CM |
| S14.101  | Unspecified injury at C1 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.101A | Unspecified injury at C1 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.101D | Unspecified injury at C1 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.101S | Unspecified injury at C1 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.102  | Unspecified injury at C2 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.102A | Unspecified injury at C2 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.102D | Unspecified injury at C2 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.102S | Unspecified injury at C2 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.103  | Unspecified injury at C3 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.103A | Unspecified injury at C3 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.103D | Unspecified injury at C3 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.103S | Unspecified injury at C3 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.104  | Unspecified injury at C4 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.104A | Unspecified injury at C4 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.104D | Unspecified injury at C4 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.104S | Unspecified injury at C4 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.105  | Unspecified injury at C5 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.105A | Unspecified injury at C5 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.105D | Unspecified injury at C5 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.105S | Unspecified injury at C5 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.106  | Unspecified injury at C6 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.106A | Unspecified injury at C6 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.106D | Unspecified injury at C6 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.106S | Unspecified injury at C6 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.107  | Unspecified injury at C7 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.107A | Unspecified injury at C7 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.107D | Unspecified injury at C7 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.107S | Unspecified injury at C7 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.108  | Unspecified injury at C8 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.108A | Unspecified injury at C8 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.108D | Unspecified injury at C8 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.108S | Unspecified injury at C8 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.109  | Unspecified injury at unspecified level of cervical spinal cord                       | Diagnosis     | ICD-10-CM |
| S14.109A | Unspecified injury at unspecified level of cervical spinal cord, initial encounter    | Diagnosis     | ICD-10-CM |
| S14.109D | Unspecified injury at unspecified level of cervical spinal cord, subsequent encounter | Diagnosis     | ICD-10-CM |
| S14.109S | Unspecified injury at unspecified level of cervical spinal cord, sequela              | Diagnosis     | ICD-10-CM |
| S14.11   | Complete lesion of cervical spinal cord   | Diagnosis     | ICD-10-CM |
| S14.111  | Complete lesion at C1 level of cervical spinal cord                                   | Diagnosis     | ICD-10-CM |
| S14.111A | Complete lesion at C1 level of cervical spinal cord, initial encounter                | Diagnosis     | ICD-10-CM |
| S14.111D | Complete lesion at C1 level of cervical spinal cord, subsequent encounter             | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S14.111S | Complete lesion at C1 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.112  | Complete lesion at C2 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.112A | Complete lesion at C2 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.112D | Complete lesion at C2 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.112S | Complete lesion at C2 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.113  | Complete lesion at C3 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.113A | Complete lesion at C3 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.113D | Complete lesion at C3 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.113S | Complete lesion at C3 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.114  | Complete lesion at C4 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.114A | Complete lesion at C4 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.114D | Complete lesion at C4 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.114S | Complete lesion at C4 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.115  | Complete lesion at C5 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.115A | Complete lesion at C5 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.115D | Complete lesion at C5 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.115S | Complete lesion at C5 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.116  | Complete lesion at C6 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.116A | Complete lesion at C6 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.116D | Complete lesion at C6 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.116S | Complete lesion at C6 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.117  | Complete lesion at C7 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.117A | Complete lesion at C7 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.117D | Complete lesion at C7 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.117S | Complete lesion at C7 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.118  | Complete lesion at C8 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.118A | Complete lesion at C8 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.118D | Complete lesion at C8 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.118S | Complete lesion at C8 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.119  | Complete lesion at unspecified level of cervical spinal cord                       | Diagnosis     | ICD-10-CM |
| S14.119A | Complete lesion at unspecified level of cervical spinal cord, initial encounter    | Diagnosis     | ICD-10-CM |
| S14.119D | Complete lesion at unspecified level of cervical spinal cord, subsequent encounter | Diagnosis     | ICD-10-CM |
| S14.119S | Complete lesion at unspecified level of cervical spinal cord, sequela              | Diagnosis     | ICD-10-CM |
| S14.12   | Central cord syndrome of cervical spinal cord                                      | Diagnosis     | ICD-10-CM |
| S14.121  | Central cord syndrome at C1 level of cervical spinal cord                          | Diagnosis     | ICD-10-CM |
| S14.121A | Central cord syndrome at C1 level of cervical spinal cord, initial encounter       | Diagnosis     | ICD-10-CM |
| S14.121D | Central cord syndrome at C1 level of cervical spinal cord, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S14.121S | Central cord syndrome at C1 level of cervical spinal cord, sequela                 | Diagnosis     | ICD-10-CM |
| S14.122  | Central cord syndrome at C2 level of cervical spinal cord                          | Diagnosis     | ICD-10-CM |
| S14.122A | Central cord syndrome at C2 level of cervical spinal cord, initial encounter       | Diagnosis     | ICD-10-CM |
| S14.122D | Central cord syndrome at C2 level of cervical spinal cord, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S14.122S | Central cord syndrome at C2 level of cervical spinal cord, sequela                 | Diagnosis     | ICD-10-CM |
| S14.123  | Central cord syndrome at C3 level of cervical spinal cord                          | Diagnosis     | ICD-10-CM |
| S14.123A | Central cord syndrome at C3 level of cervical spinal cord, initial encounter       | Diagnosis     | ICD-10-CM |
| S14.123D | Central cord syndrome at C3 level of cervical spinal cord, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S14.123S | Central cord syndrome at C3 level of cervical spinal cord, sequela                 | Diagnosis     | ICD-10-CM |
| S14.124  | Central cord syndrome at C4 level of cervical spinal cord                          | Diagnosis     | ICD-10-CM |
| S14.124A | Central cord syndrome at C4 level of cervical spinal cord, initial encounter       | Diagnosis     | ICD-10-CM |
| S14.124D | Central cord syndrome at C4 level of cervical spinal cord, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S14.124S | Central cord syndrome at C4 level of cervical spinal cord, sequela                 | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S14.125  | Central cord syndrome at C5 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.125A | Central cord syndrome at C5 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.125D | Central cord syndrome at C5 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.125S | Central cord syndrome at C5 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.126  | Central cord syndrome at C6 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.126A | Central cord syndrome at C6 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.126D | Central cord syndrome at C6 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.126S | Central cord syndrome at C6 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.127  | Central cord syndrome at C7 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.127A | Central cord syndrome at C7 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.127D | Central cord syndrome at C7 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.127S | Central cord syndrome at C7 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.128  | Central cord syndrome at C8 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.128A | Central cord syndrome at C8 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.128D | Central cord syndrome at C8 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.128S | Central cord syndrome at C8 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.129  | Central cord syndrome at unspecified level of cervical spinal cord                       | Diagnosis     | ICD-10-CM |
| S14.129A | Central cord syndrome at unspecified level of cervical spinal cord, initial encounter    | Diagnosis     | ICD-10-CM |
| S14.129D | Central cord syndrome at unspecified level of cervical spinal cord, subsequent encounter | Diagnosis     | ICD-10-CM |
| S14.129S | Central cord syndrome at unspecified level of cervical spinal cord, sequela              | Diagnosis     | ICD-10-CM |
| S14.13   | Anterior cord syndrome of cervical spinal cord   | Diagnosis     | ICD-10-CM |
| S14.131  | Anterior cord syndrome at C1 level of cervical spinal cord                               | Diagnosis     | ICD-10-CM |
| S14.131A | Anterior cord syndrome at C1 level of cervical spinal cord, initial encounter            | Diagnosis     | ICD-10-CM |
| S14.131D | Anterior cord syndrome at C1 level of cervical spinal cord, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S14.131S | Anterior cord syndrome at C1 level of cervical spinal cord, sequela                      | Diagnosis     | ICD-10-CM |
| S14.132  | Anterior cord syndrome at C2 level of cervical spinal cord                               | Diagnosis     | ICD-10-CM |
| S14.132A | Anterior cord syndrome at C2 level of cervical spinal cord, initial encounter            | Diagnosis     | ICD-10-CM |
| S14.132D | Anterior cord syndrome at C2 level of cervical spinal cord, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S14.132S | Anterior cord syndrome at C2 level of cervical spinal cord, sequela                      | Diagnosis     | ICD-10-CM |
| S14.133  | Anterior cord syndrome at C3 level of cervical spinal cord                               | Diagnosis     | ICD-10-CM |
| S14.133A | Anterior cord syndrome at C3 level of cervical spinal cord, initial encounter            | Diagnosis     | ICD-10-CM |
| S14.133D | Anterior cord syndrome at C3 level of cervical spinal cord, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S14.133S | Anterior cord syndrome at C3 level of cervical spinal cord, sequela                      | Diagnosis     | ICD-10-CM |
| S14.134  | Anterior cord syndrome at C4 level of cervical spinal cord                               | Diagnosis     | ICD-10-CM |
| S14.134A | Anterior cord syndrome at C4 level of cervical spinal cord, initial encounter            | Diagnosis     | ICD-10-CM |
| S14.134D | Anterior cord syndrome at C4 level of cervical spinal cord, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S14.134S | Anterior cord syndrome at C4 level of cervical spinal cord, sequela                      | Diagnosis     | ICD-10-CM |
| S14.135  | Anterior cord syndrome at C5 level of cervical spinal cord                               | Diagnosis     | ICD-10-CM |
| S14.135A | Anterior cord syndrome at C5 level of cervical spinal cord, initial encounter            | Diagnosis     | ICD-10-CM |
| S14.135D | Anterior cord syndrome at C5 level of cervical spinal cord, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S14.135S | Anterior cord syndrome at C5 level of cervical spinal cord, sequela                      | Diagnosis     | ICD-10-CM |
| S14.136  | Anterior cord syndrome at C6 level of cervical spinal cord                               | Diagnosis     | ICD-10-CM |
| S14.136A | Anterior cord syndrome at C6 level of cervical spinal cord, initial encounter            | Diagnosis     | ICD-10-CM |
| S14.136D | Anterior cord syndrome at C6 level of cervical spinal cord, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S14.136S | Anterior cord syndrome at C6 level of cervical spinal cord, sequela                      | Diagnosis     | ICD-10-CM |
| S14.137  | Anterior cord syndrome at C7 level of cervical spinal cord                               | Diagnosis     | ICD-10-CM |
| S14.137A | Anterior cord syndrome at C7 level of cervical spinal cord, initial encounter            | Diagnosis     | ICD-10-CM |
| S14.137D | Anterior cord syndrome at C7 level of cervical spinal cord, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S14.137S | Anterior cord syndrome at C7 level of cervical spinal cord, sequela                      | Diagnosis     | ICD-10-CM |
| S14.138  | Anterior cord syndrome at C8 level of cervical spinal cord                               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S14.138A | Anterior cord syndrome at C8 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.138D | Anterior cord syndrome at C8 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.138S | Anterior cord syndrome at C8 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.139  | Anterior cord syndrome at unspecified level of cervical spinal cord                       | Diagnosis     | ICD-10-CM |
| S14.139A | Anterior cord syndrome at unspecified level of cervical spinal cord, initial encounter    | Diagnosis     | ICD-10-CM |
| S14.139D | Anterior cord syndrome at unspecified level of cervical spinal cord, subsequent encounter | Diagnosis     | ICD-10-CM |
| S14.139S | Anterior cord syndrome at unspecified level of cervical spinal cord, sequela              | Diagnosis     | ICD-10-CM |
| S14.14   | Brown-Sequard syndrome of cervical spinal cord  | Diagnosis     | ICD-10-CM |
| S14.141  | Brown-Sequard syndrome at C1 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.141A | Brown-Sequard syndrome at C1 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.141D | Brown-Sequard syndrome at C1 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.141S | Brown-Sequard syndrome at C1 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.142  | Brown-Sequard syndrome at C2 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.142A | Brown-Sequard syndrome at C2 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.142D | Brown-Sequard syndrome at C2 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.142S | Brown-Sequard syndrome at C2 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.143  | Brown-Sequard syndrome at C3 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.143A | Brown-Sequard syndrome at C3 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.143D | Brown-Sequard syndrome at C3 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.143S | Brown-Sequard syndrome at C3 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.144  | Brown-Sequard syndrome at C4 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.144A | Brown-Sequard syndrome at C4 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.144D | Brown-Sequard syndrome at C4 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.144S | Brown-Sequard syndrome at C4 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.145  | Brown-Sequard syndrome at C5 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.145A | Brown-Sequard syndrome at C5 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.145D | Brown-Sequard syndrome at C5 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.145S | Brown-Sequard syndrome at C5 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.146  | Brown-Sequard syndrome at C6 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.146A | Brown-Sequard syndrome at C6 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.146D | Brown-Sequard syndrome at C6 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.146S | Brown-Sequard syndrome at C6 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.147  | Brown-Sequard syndrome at C7 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.147A | Brown-Sequard syndrome at C7 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.147D | Brown-Sequard syndrome at C7 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.147S | Brown-Sequard syndrome at C7 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.148  | Brown-Sequard syndrome at C8 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.148A | Brown-Sequard syndrome at C8 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.148D | Brown-Sequard syndrome at C8 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.148S | Brown-Sequard syndrome at C8 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.149  | Brown-Sequard syndrome at unspecified level of cervical spinal cord                       | Diagnosis     | ICD-10-CM |
| S14.149A | Brown-Sequard syndrome at unspecified level of cervical spinal cord, initial encounter    | Diagnosis     | ICD-10-CM |
| S14.149D | Brown-Sequard syndrome at unspecified level of cervical spinal cord, subsequent encounter | Diagnosis     | ICD-10-CM |
| S14.149S | Brown-Sequard syndrome at unspecified level of cervical spinal cord, sequela              | Diagnosis     | ICD-10-CM |
| S14.15   | Other incomplete lesions of cervical spinal cord  | Diagnosis     | ICD-10-CM |
| S14.151  | Other incomplete lesion at C1 level of cervical spinal cord                               | Diagnosis     | ICD-10-CM |
| S14.151A | Other incomplete lesion at C1 level of cervical spinal cord, initial encounter            | Diagnosis     | ICD-10-CM |
| S14.151D | Other incomplete lesion at C1 level of cervical spinal cord, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S14.151S | Other incomplete lesion at C1 level of cervical spinal cord, sequela                      | Diagnosis     | ICD-10-CM |
| S14.152  | Other incomplete lesion at C2 level of cervical spinal cord                               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S14.152A | Other incomplete lesion at C2 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.152D | Other incomplete lesion at C2 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.152S | Other incomplete lesion at C2 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.153  | Other incomplete lesion at C3 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.153A | Other incomplete lesion at C3 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.153D | Other incomplete lesion at C3 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.153S | Other incomplete lesion at C3 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.154  | Other incomplete lesion at C4 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.154A | Other incomplete lesion at C4 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.154D | Other incomplete lesion at C4 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.154S | Other incomplete lesion at C4 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.155  | Other incomplete lesion at C5 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.155A | Other incomplete lesion at C5 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.155D | Other incomplete lesion at C5 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.155S | Other incomplete lesion at C5 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.156  | Other incomplete lesion at C6 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.156A | Other incomplete lesion at C6 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.156D | Other incomplete lesion at C6 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.156S | Other incomplete lesion at C6 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.157  | Other incomplete lesion at C7 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.157A | Other incomplete lesion at C7 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.157D | Other incomplete lesion at C7 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.157S | Other incomplete lesion at C7 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.158  | Other incomplete lesion at C8 level of cervical spinal cord                                | Diagnosis     | ICD-10-CM |
| S14.158A | Other incomplete lesion at C8 level of cervical spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S14.158D | Other incomplete lesion at C8 level of cervical spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S14.158S | Other incomplete lesion at C8 level of cervical spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S14.159  | Other incomplete lesion at unspecified level of cervical spinal cord                       | Diagnosis     | ICD-10-CM |
| S14.159A | Other incomplete lesion at unspecified level of cervical spinal cord, initial encounter    | Diagnosis     | ICD-10-CM |
| S14.159D | Other incomplete lesion at unspecified level of cervical spinal cord, subsequent encounter | Diagnosis     | ICD-10-CM |
| S14.159S | Other incomplete lesion at unspecified level of cervical spinal cord, sequela              | Diagnosis     | ICD-10-CM |
| S14.2    | Injury of nerve root of cervical spine   | Diagnosis     | ICD-10-CM |
| S14.2XXA | Injury of nerve root of cervical spine, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S14.2XXD | Injury of nerve root of cervical spine, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S14.2XXS | Injury of nerve root of cervical spine, sequela  | Diagnosis     | ICD-10-CM |
| S14.3    | Injury of brachial plexus  | Diagnosis     | ICD-10-CM |
| S14.3XXA | Injury of brachial plexus, initial encounter   | Diagnosis     | ICD-10-CM |
| S14.3XXD | Injury of brachial plexus, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S14.3XXS | Injury of brachial plexus, sequela   | Diagnosis     | ICD-10-CM |
| S14.4    | Injury of peripheral nerves of neck  | Diagnosis     | ICD-10-CM |
| S14.4XXA | Injury of peripheral nerves of neck, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S14.4XXD | Injury of peripheral nerves of neck, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S14.4XXS | Injury of peripheral nerves of neck, sequela   | Diagnosis     | ICD-10-CM |
| S14.5    | Injury of cervical sympathetic nerves  | Diagnosis     | ICD-10-CM |
| S14.5XXA | Injury of cervical sympathetic nerves, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S14.5XXD | Injury of cervical sympathetic nerves, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S14.5XXS | Injury of cervical sympathetic nerves, sequela   | Diagnosis     | ICD-10-CM |
| S14.8    | Injury of other specified nerves of neck   | Diagnosis     | ICD-10-CM |
| S14.8XXA | Injury of other specified nerves of neck, initial encounter                                | Diagnosis     | ICD-10-CM |
| S14.8XXD | Injury of other specified nerves of neck, subsequent encounter                             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S14.8XXS | Injury of other specified nerves of neck, sequela                      | Diagnosis     | ICD-10-CM |
| S14.9    | Injury of unspecified nerves of neck                                   | Diagnosis     | ICD-10-CM |
| S14.9XXA | Injury of unspecified nerves of neck, initial encounter                | Diagnosis     | ICD-10-CM |
| S14.9XXD | Injury of unspecified nerves of neck, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S14.9XXS | Injury of unspecified nerves of neck, sequela                          | Diagnosis     | ICD-10-CM |
| S15      | Injury of blood vessels at neck level                                  | Diagnosis     | ICD-10-CM |
| S15.0    | Injury of carotid artery of neck                                       | Diagnosis     | ICD-10-CM |
| S15.00   | Unspecified injury of carotid artery                                   | Diagnosis     | ICD-10-CM |
| S15.001  | Unspecified injury of right carotid artery                             | Diagnosis     | ICD-10-CM |
| S15.001A | Unspecified injury of right carotid artery, initial encounter          | Diagnosis     | ICD-10-CM |
| S15.001D | Unspecified injury of right carotid artery, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S15.001S | Unspecified injury of right carotid artery, sequela                    | Diagnosis     | ICD-10-CM |
| S15.002  | Unspecified injury of left carotid artery                              | Diagnosis     | ICD-10-CM |
| S15.002A | Unspecified injury of left carotid artery, initial encounter           | Diagnosis     | ICD-10-CM |
| S15.002D | Unspecified injury of left carotid artery, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S15.002S | Unspecified injury of left carotid artery, sequela                     | Diagnosis     | ICD-10-CM |
| S15.009  | Unspecified injury of unspecified carotid artery                       | Diagnosis     | ICD-10-CM |
| S15.009A | Unspecified injury of unspecified carotid artery, initial encounter    | Diagnosis     | ICD-10-CM |
| S15.009D | Unspecified injury of unspecified carotid artery, subsequent encounter | Diagnosis     | ICD-10-CM |
| S15.009S | Unspecified injury of unspecified carotid artery, sequela              | Diagnosis     | ICD-10-CM |
| S15.01   | Minor laceration of carotid artery                                     | Diagnosis     | ICD-10-CM |
| S15.011  | Minor laceration of right carotid artery                               | Diagnosis     | ICD-10-CM |
| S15.011A | Minor laceration of right carotid artery, initial encounter            | Diagnosis     | ICD-10-CM |
| S15.011D | Minor laceration of right carotid artery, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S15.011S | Minor laceration of right carotid artery, sequela                      | Diagnosis     | ICD-10-CM |
| S15.012  | Minor laceration of left carotid artery                                | Diagnosis     | ICD-10-CM |
| S15.012A | Minor laceration of left carotid artery, initial encounter             | Diagnosis     | ICD-10-CM |
| S15.012D | Minor laceration of left carotid artery, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S15.012S | Minor laceration of left carotid artery, sequela                       | Diagnosis     | ICD-10-CM |
| S15.019  | Minor laceration of unspecified carotid artery                         | Diagnosis     | ICD-10-CM |
| S15.019A | Minor laceration of unspecified carotid artery, initial encounter      | Diagnosis     | ICD-10-CM |
| S15.019D | Minor laceration of unspecified carotid artery, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S15.019S | Minor laceration of unspecified carotid artery, sequela                | Diagnosis     | ICD-10-CM |
| S15.02   | Major laceration of carotid artery                                     | Diagnosis     | ICD-10-CM |
| S15.021  | Major laceration of right carotid artery                               | Diagnosis     | ICD-10-CM |
| S15.021A | Major laceration of right carotid artery, initial encounter            | Diagnosis     | ICD-10-CM |
| S15.021D | Major laceration of right carotid artery, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S15.021S | Major laceration of right carotid artery, sequela                      | Diagnosis     | ICD-10-CM |
| S15.022  | Major laceration of left carotid artery                                | Diagnosis     | ICD-10-CM |
| S15.022A | Major laceration of left carotid artery, initial encounter             | Diagnosis     | ICD-10-CM |
| S15.022D | Major laceration of left carotid artery, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S15.022S | Major laceration of left carotid artery, sequela                       | Diagnosis     | ICD-10-CM |
| S15.029  | Major laceration of unspecified carotid artery                         | Diagnosis     | ICD-10-CM |
| S15.029A | Major laceration of unspecified carotid artery, initial encounter      | Diagnosis     | ICD-10-CM |
| S15.029D | Major laceration of unspecified carotid artery, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S15.029S | Major laceration of unspecified carotid artery, sequela                | Diagnosis     | ICD-10-CM |
| S15.09   | Other specified injury of carotid artery                               | Diagnosis     | ICD-10-CM |
| S15.091  | Other specified injury of right carotid artery                         | Diagnosis     | ICD-10-CM |
| S15.091A | Other specified injury of right carotid artery, initial encounter      | Diagnosis     | ICD-10-CM |
| S15.091D | Other specified injury of right carotid artery, subsequent encounter   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S15.091S | Other specified injury of right carotid artery, sequela                    | Diagnosis     | ICD-10-CM |
| S15.092  | Other specified injury of left carotid artery                              | Diagnosis     | ICD-10-CM |
| S15.092A | Other specified injury of left carotid artery, initial encounter           | Diagnosis     | ICD-10-CM |
| S15.092D | Other specified injury of left carotid artery, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S15.092S | Other specified injury of left carotid artery, sequela                     | Diagnosis     | ICD-10-CM |
| S15.099  | Other specified injury of unspecified carotid artery                       | Diagnosis     | ICD-10-CM |
| S15.099A | Other specified injury of unspecified carotid artery, initial encounter    | Diagnosis     | ICD-10-CM |
| S15.099D | Other specified injury of unspecified carotid artery, subsequent encounter | Diagnosis     | ICD-10-CM |
| S15.099S | Other specified injury of unspecified carotid artery, sequela              | Diagnosis     | ICD-10-CM |
| S15.1    | Injury of vertebral artery   | Diagnosis     | ICD-10-CM |
| S15.10   | Unspecified injury of vertebral artery                                     | Diagnosis     | ICD-10-CM |
| S15.101  | Unspecified injury of right vertebral artery                               | Diagnosis     | ICD-10-CM |
| S15.101A | Unspecified injury of right vertebral artery, initial encounter            | Diagnosis     | ICD-10-CM |
| S15.101D | Unspecified injury of right vertebral artery, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S15.101S | Unspecified injury of right vertebral artery, sequela                      | Diagnosis     | ICD-10-CM |
| S15.102  | Unspecified injury of left vertebral artery                                | Diagnosis     | ICD-10-CM |
| S15.102A | Unspecified injury of left vertebral artery, initial encounter             | Diagnosis     | ICD-10-CM |
| S15.102D | Unspecified injury of left vertebral artery, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S15.102S | Unspecified injury of left vertebral artery, sequela                       | Diagnosis     | ICD-10-CM |
| S15.109  | Unspecified injury of unspecified vertebral artery                         | Diagnosis     | ICD-10-CM |
| S15.109A | Unspecified injury of unspecified vertebral artery, initial encounter      | Diagnosis     | ICD-10-CM |
| S15.109D | Unspecified injury of unspecified vertebral artery, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S15.109S | Unspecified injury of unspecified vertebral artery, sequela                | Diagnosis     | ICD-10-CM |
| S15.11   | Minor laceration of vertebral artery                                       | Diagnosis     | ICD-10-CM |
| S15.111  | Minor laceration of right vertebral artery                                 | Diagnosis     | ICD-10-CM |
| S15.111A | Minor laceration of right vertebral artery, initial encounter              | Diagnosis     | ICD-10-CM |
| S15.111D | Minor laceration of right vertebral artery, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S15.111S | Minor laceration of right vertebral artery, sequela                        | Diagnosis     | ICD-10-CM |
| S15.112  | Minor laceration of left vertebral artery                                  | Diagnosis     | ICD-10-CM |
| S15.112A | Minor laceration of left vertebral artery, initial encounter               | Diagnosis     | ICD-10-CM |
| S15.112D | Minor laceration of left vertebral artery, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S15.112S | Minor laceration of left vertebral artery, sequela                         | Diagnosis     | ICD-10-CM |
| S15.119  | Minor laceration of unspecified vertebral artery                           | Diagnosis     | ICD-10-CM |
| S15.119A | Minor laceration of unspecified vertebral artery, initial encounter        | Diagnosis     | ICD-10-CM |
| S15.119D | Minor laceration of unspecified vertebral artery, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S15.119S | Minor laceration of unspecified vertebral artery, sequela                  | Diagnosis     | ICD-10-CM |
| S15.12   | Major laceration of vertebral artery                                       | Diagnosis     | ICD-10-CM |
| S15.121  | Major laceration of right vertebral artery                                 | Diagnosis     | ICD-10-CM |
| S15.121A | Major laceration of right vertebral artery, initial encounter              | Diagnosis     | ICD-10-CM |
| S15.121D | Major laceration of right vertebral artery, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S15.121S | Major laceration of right vertebral artery, sequela                        | Diagnosis     | ICD-10-CM |
| S15.122  | Major laceration of left vertebral artery                                  | Diagnosis     | ICD-10-CM |
| S15.122A | Major laceration of left vertebral artery, initial encounter               | Diagnosis     | ICD-10-CM |
| S15.122D | Major laceration of left vertebral artery, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S15.122S | Major laceration of left vertebral artery, sequela                         | Diagnosis     | ICD-10-CM |
| S15.129  | Major laceration of unspecified vertebral artery                           | Diagnosis     | ICD-10-CM |
| S15.129A | Major laceration of unspecified vertebral artery, initial encounter        | Diagnosis     | ICD-10-CM |
| S15.129D | Major laceration of unspecified vertebral artery, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S15.129S | Major laceration of unspecified vertebral artery, sequela                  | Diagnosis     | ICD-10-CM |
| S15.19   | Other specified injury of vertebral artery                                 | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S15.191  | Other specified injury of right vertebral artery                              | Diagnosis     | ICD-10-CM |
| S15.191A | Other specified injury of right vertebral artery, initial encounter           | Diagnosis     | ICD-10-CM |
| S15.191D | Other specified injury of right vertebral artery, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S15.191S | Other specified injury of right vertebral artery, sequela                     | Diagnosis     | ICD-10-CM |
| S15.192  | Other specified injury of left vertebral artery                               | Diagnosis     | ICD-10-CM |
| S15.192A | Other specified injury of left vertebral artery, initial encounter            | Diagnosis     | ICD-10-CM |
| S15.192D | Other specified injury of left vertebral artery, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S15.192S | Other specified injury of left vertebral artery, sequela                      | Diagnosis     | ICD-10-CM |
| S15.199  | Other specified injury of unspecified vertebral artery                        | Diagnosis     | ICD-10-CM |
| S15.199A | Other specified injury of unspecified vertebral artery, initial encounter     | Diagnosis     | ICD-10-CM |
| S15.199D | Other specified injury of unspecified vertebral artery, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S15.199S | Other specified injury of unspecified vertebral artery, sequela               | Diagnosis     | ICD-10-CM |
| S15.2    | Injury of external jugular vein   | Diagnosis     | ICD-10-CM |
| S15.20   | Unspecified injury of external jugular vein                                   | Diagnosis     | ICD-10-CM |
| S15.201  | Unspecified injury of right external jugular vein                             | Diagnosis     | ICD-10-CM |
| S15.201A | Unspecified injury of right external jugular vein, initial encounter          | Diagnosis     | ICD-10-CM |
| S15.201D | Unspecified injury of right external jugular vein, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S15.201S | Unspecified injury of right external jugular vein, sequela                    | Diagnosis     | ICD-10-CM |
| S15.202  | Unspecified injury of left external jugular vein                              | Diagnosis     | ICD-10-CM |
| S15.202A | Unspecified injury of left external jugular vein, initial encounter           | Diagnosis     | ICD-10-CM |
| S15.202D | Unspecified injury of left external jugular vein, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S15.202S | Unspecified injury of left external jugular vein, sequela                     | Diagnosis     | ICD-10-CM |
| S15.209  | Unspecified injury of unspecified external jugular vein                       | Diagnosis     | ICD-10-CM |
| S15.209A | Unspecified injury of unspecified external jugular vein, initial encounter    | Diagnosis     | ICD-10-CM |
| S15.209D | Unspecified injury of unspecified external jugular vein, subsequent encounter | Diagnosis     | ICD-10-CM |
| S15.209S | Unspecified injury of unspecified external jugular vein, sequela              | Diagnosis     | ICD-10-CM |
| S15.21   | Minor laceration of external jugular vein                                     | Diagnosis     | ICD-10-CM |
| S15.211  | Minor laceration of right external jugular vein                               | Diagnosis     | ICD-10-CM |
| S15.211A | Minor laceration of right external jugular vein, initial encounter            | Diagnosis     | ICD-10-CM |
| S15.211D | Minor laceration of right external jugular vein, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S15.211S | Minor laceration of right external jugular vein, sequela                      | Diagnosis     | ICD-10-CM |
| S15.212  | Minor laceration of left external jugular vein                                | Diagnosis     | ICD-10-CM |
| S15.212A | Minor laceration of left external jugular vein, initial encounter             | Diagnosis     | ICD-10-CM |
| S15.212D | Minor laceration of left external jugular vein, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S15.212S | Minor laceration of left external jugular vein, sequela                       | Diagnosis     | ICD-10-CM |
| S15.219  | Minor laceration of unspecified external jugular vein                         | Diagnosis     | ICD-10-CM |
| S15.219A | Minor laceration of unspecified external jugular vein, initial encounter      | Diagnosis     | ICD-10-CM |
| S15.219D | Minor laceration of unspecified external jugular vein, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S15.219S | Minor laceration of unspecified external jugular vein, sequela                | Diagnosis     | ICD-10-CM |
| S15.22   | Major laceration of external jugular vein                                     | Diagnosis     | ICD-10-CM |
| S15.221  | Major laceration of right external jugular vein                               | Diagnosis     | ICD-10-CM |
| S15.221A | Major laceration of right external jugular vein, initial encounter            | Diagnosis     | ICD-10-CM |
| S15.221D | Major laceration of right external jugular vein, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S15.221S | Major laceration of right external jugular vein, sequela                      | Diagnosis     | ICD-10-CM |
| S15.222  | Major laceration of left external jugular vein                                | Diagnosis     | ICD-10-CM |
| S15.222A | Major laceration of left external jugular vein, initial encounter             | Diagnosis     | ICD-10-CM |
| S15.222D | Major laceration of left external jugular vein, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S15.222S | Major laceration of left external jugular vein, sequela                       | Diagnosis     | ICD-10-CM |
| S15.229  | Major laceration of unspecified external jugular vein                         | Diagnosis     | ICD-10-CM |
| S15.229A | Major laceration of unspecified external jugular vein, initial encounter      | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S15.229D | Major laceration of unspecified external jugular vein, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S15.229S | Major laceration of unspecified external jugular vein, sequela                    | Diagnosis     | ICD-10-CM |
| S15.29   | Other specified injury of external jugular vein                                   | Diagnosis     | ICD-10-CM |
| S15.291  | Other specified injury of right external jugular vein                             | Diagnosis     | ICD-10-CM |
| S15.291A | Other specified injury of right external jugular vein, initial encounter          | Diagnosis     | ICD-10-CM |
| S15.291D | Other specified injury of right external jugular vein, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S15.291S | Other specified injury of right external jugular vein, sequela                    | Diagnosis     | ICD-10-CM |
| S15.292  | Other specified injury of left external jugular vein                              | Diagnosis     | ICD-10-CM |
| S15.292A | Other specified injury of left external jugular vein, initial encounter           | Diagnosis     | ICD-10-CM |
| S15.292D | Other specified injury of left external jugular vein, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S15.292S | Other specified injury of left external jugular vein, sequela                     | Diagnosis     | ICD-10-CM |
| S15.299  | Other specified injury of unspecified external jugular vein                       | Diagnosis     | ICD-10-CM |
| S15.299A | Other specified injury of unspecified external jugular vein, initial encounter    | Diagnosis     | ICD-10-CM |
| S15.299D | Other specified injury of unspecified external jugular vein, subsequent encounter | Diagnosis     | ICD-10-CM |
| S15.299S | Other specified injury of unspecified external jugular vein, sequela              | Diagnosis     | ICD-10-CM |
| S15.3    | Injury of internal jugular vein   | Diagnosis     | ICD-10-CM |
| S15.30   | Unspecified injury of internal jugular vein                                       | Diagnosis     | ICD-10-CM |
| S15.301  | Unspecified injury of right internal jugular vein                                 | Diagnosis     | ICD-10-CM |
| S15.301A | Unspecified injury of right internal jugular vein, initial encounter              | Diagnosis     | ICD-10-CM |
| S15.301D | Unspecified injury of right internal jugular vein, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S15.301S | Unspecified injury of right internal jugular vein, sequela                        | Diagnosis     | ICD-10-CM |
| S15.302  | Unspecified injury of left internal jugular vein                                  | Diagnosis     | ICD-10-CM |
| S15.302A | Unspecified injury of left internal jugular vein, initial encounter               | Diagnosis     | ICD-10-CM |
| S15.302D | Unspecified injury of left internal jugular vein, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S15.302S | Unspecified injury of left internal jugular vein, sequela                         | Diagnosis     | ICD-10-CM |
| S15.309  | Unspecified injury of unspecified internal jugular vein                           | Diagnosis     | ICD-10-CM |
| S15.309A | Unspecified injury of unspecified internal jugular vein, initial encounter        | Diagnosis     | ICD-10-CM |
| S15.309D | Unspecified injury of unspecified internal jugular vein, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S15.309S | Unspecified injury of unspecified internal jugular vein, sequela                  | Diagnosis     | ICD-10-CM |
| S15.31   | Minor laceration of internal jugular vein   | Diagnosis     | ICD-10-CM |
| S15.311  | Minor laceration of right internal jugular vein                                   | Diagnosis     | ICD-10-CM |
| S15.311A | Minor laceration of right internal jugular vein, initial encounter                | Diagnosis     | ICD-10-CM |
| S15.311D | Minor laceration of right internal jugular vein, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S15.311S | Minor laceration of right internal jugular vein, sequela                          | Diagnosis     | ICD-10-CM |
| S15.312  | Minor laceration of left internal jugular vein                                    | Diagnosis     | ICD-10-CM |
| S15.312A | Minor laceration of left internal jugular vein, initial encounter                 | Diagnosis     | ICD-10-CM |
| S15.312D | Minor laceration of left internal jugular vein, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S15.312S | Minor laceration of left internal jugular vein, sequela                           | Diagnosis     | ICD-10-CM |
| S15.319  | Minor laceration of unspecified internal jugular vein                             | Diagnosis     | ICD-10-CM |
| S15.319A | Minor laceration of unspecified internal jugular vein, initial encounter          | Diagnosis     | ICD-10-CM |
| S15.319D | Minor laceration of unspecified internal jugular vein, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S15.319S | Minor laceration of unspecified internal jugular vein, sequela                    | Diagnosis     | ICD-10-CM |
| S15.32   | Major laceration of internal jugular vein   | Diagnosis     | ICD-10-CM |
| S15.321  | Major laceration of right internal jugular vein                                   | Diagnosis     | ICD-10-CM |
| S15.321A | Major laceration of right internal jugular vein, initial encounter                | Diagnosis     | ICD-10-CM |
| S15.321D | Major laceration of right internal jugular vein, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S15.321S | Major laceration of right internal jugular vein, sequela                          | Diagnosis     | ICD-10-CM |
| S15.322  | Major laceration of left internal jugular vein                                    | Diagnosis     | ICD-10-CM |
| S15.322A | Major laceration of left internal jugular vein, initial encounter                 | Diagnosis     | ICD-10-CM |
| S15.322D | Major laceration of left internal jugular vein, subsequent encounter              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S15.322S | Major laceration of left internal jugular vein, sequela                                 | Diagnosis     | ICD-10-CM |
| S15.329  | Major laceration of unspecified internal jugular vein                                   | Diagnosis     | ICD-10-CM |
| S15.329A | Major laceration of unspecified internal jugular vein, initial encounter                | Diagnosis     | ICD-10-CM |
| S15.329D | Major laceration of unspecified internal jugular vein, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S15.329S | Major laceration of unspecified internal jugular vein, sequela                          | Diagnosis     | ICD-10-CM |
| S15.39   | Other specified injury of internal jugular vein   | Diagnosis     | ICD-10-CM |
| S15.391  | Other specified injury of right internal jugular vein                                   | Diagnosis     | ICD-10-CM |
| S15.391A | Other specified injury of right internal jugular vein, initial encounter                | Diagnosis     | ICD-10-CM |
| S15.391D | Other specified injury of right internal jugular vein, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S15.391S | Other specified injury of right internal jugular vein, sequela                          | Diagnosis     | ICD-10-CM |
| S15.392  | Other specified injury of left internal jugular vein                                    | Diagnosis     | ICD-10-CM |
| S15.392A | Other specified injury of left internal jugular vein, initial encounter                 | Diagnosis     | ICD-10-CM |
| S15.392D | Other specified injury of left internal jugular vein, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S15.392S | Other specified injury of left internal jugular vein, sequela                           | Diagnosis     | ICD-10-CM |
| S15.399  | Other specified injury of unspecified internal jugular vein                             | Diagnosis     | ICD-10-CM |
| S15.399A | Other specified injury of unspecified internal jugular vein, initial encounter          | Diagnosis     | ICD-10-CM |
| S15.399D | Other specified injury of unspecified internal jugular vein, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S15.399S | Other specified injury of unspecified internal jugular vein, sequela                    | Diagnosis     | ICD-10-CM |
| S15.8    | Injury of other specified blood vessels at neck level                                   | Diagnosis     | ICD-10-CM |
| S15.8XXA | Injury of other specified blood vessels at neck level, initial encounter                | Diagnosis     | ICD-10-CM |
| S15.8XXD | Injury of other specified blood vessels at neck level, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S15.8XXS | Injury of other specified blood vessels at neck level, sequela                          | Diagnosis     | ICD-10-CM |
| S15.9    | Injury of unspecified blood vessel at neck level  | Diagnosis     | ICD-10-CM |
| S15.9XXA | Injury of unspecified blood vessel at neck level, initial encounter                     | Diagnosis     | ICD-10-CM |
| S15.9XXD | Injury of unspecified blood vessel at neck level, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S15.9XXS | Injury of unspecified blood vessel at neck level, sequela                               | Diagnosis     | ICD-10-CM |
| S16      | Injury of muscle, fascia and tendon at neck level                                       | Diagnosis     | ICD-10-CM |
| S16.1    | Strain of muscle, fascia and tendon at neck level                                       | Diagnosis     | ICD-10-CM |
| S16.1XXA | Strain of muscle, fascia and tendon at neck level, initial encounter                    | Diagnosis     | ICD-10-CM |
| S16.1XXD | Strain of muscle, fascia and tendon at neck level, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S16.1XXS | Strain of muscle, fascia and tendon at neck level, sequela                              | Diagnosis     | ICD-10-CM |
| S16.2    | Laceration of muscle, fascia and tendon at neck level                                   | Diagnosis     | ICD-10-CM |
| S16.2XXA | Laceration of muscle, fascia and tendon at neck level, initial encounter                | Diagnosis     | ICD-10-CM |
| S16.2XXD | Laceration of muscle, fascia and tendon at neck level, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S16.2XXS | Laceration of muscle, fascia and tendon at neck level, sequela                          | Diagnosis     | ICD-10-CM |
| S16.8    | Other specified injury of muscle, fascia and tendon at neck level                       | Diagnosis     | ICD-10-CM |
| S16.8XXA | Other specified injury of muscle, fascia and tendon at neck level, initial encounter    | Diagnosis     | ICD-10-CM |
| S16.8XXD | Other specified injury of muscle, fascia and tendon at neck level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S16.8XXS | Other specified injury of muscle, fascia and tendon at neck level, sequela              | Diagnosis     | ICD-10-CM |
| S16.9    | Unspecified injury of muscle, fascia and tendon at neck level                           | Diagnosis     | ICD-10-CM |
| S16.9XXA | Unspecified injury of muscle, fascia and tendon at neck level, initial encounter        | Diagnosis     | ICD-10-CM |
| S16.9XXD | Unspecified injury of muscle, fascia and tendon at neck level, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S16.9XXS | Unspecified injury of muscle, fascia and tendon at neck level, sequela                  | Diagnosis     | ICD-10-CM |
| S17      | Crushing injury of neck   | Diagnosis     | ICD-10-CM |
| S17.0    | Crushing injury of larynx and trachea   | Diagnosis     | ICD-10-CM |
| S17.0XXA | Crushing injury of larynx and trachea, initial encounter                                | Diagnosis     | ICD-10-CM |
| S17.0XXD | Crushing injury of larynx and trachea, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S17.0XXS | Crushing injury of larynx and trachea, sequela  | Diagnosis     | ICD-10-CM |
| S17.8    | Crushing injury of other specified parts of neck  | Diagnosis     | ICD-10-CM |
| S17.8XXA | Crushing injury of other specified parts of neck, initial encounter                     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S17.8XXD | Crushing injury of other specified parts of neck, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S17.8XXS | Crushing injury of other specified parts of neck, sequela                        | Diagnosis     | ICD-10-CM |
| S17.9    | Crushing injury of neck, part unspecified  | Diagnosis     | ICD-10-CM |
| S17.9XXA | Crushing injury of neck, part unspecified, initial encounter                     | Diagnosis     | ICD-10-CM |
| S17.9XXD | Crushing injury of neck, part unspecified, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S17.9XXS | Crushing injury of neck, part unspecified, sequela                               | Diagnosis     | ICD-10-CM |
| S19      | Other specified and unspecified injuries of neck                                 | Diagnosis     | ICD-10-CM |
| S19.8    | Other specified injuries of neck   | Diagnosis     | ICD-10-CM |
| S19.80   | Other specified injuries of unspecified part of neck                             | Diagnosis     | ICD-10-CM |
| S19.80XA | Other specified injuries of unspecified part of neck, initial encounter          | Diagnosis     | ICD-10-CM |
| S19.80XD | Other specified injuries of unspecified part of neck, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S19.80XS | Other specified injuries of unspecified part of neck, sequela                    | Diagnosis     | ICD-10-CM |
| S19.81   | Other specified injuries of larynx   | Diagnosis     | ICD-10-CM |
| S19.81XA | Other specified injuries of larynx, initial encounter                            | Diagnosis     | ICD-10-CM |
| S19.81XD | Other specified injuries of larynx, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S19.81XS | Other specified injuries of larynx, sequela                                      | Diagnosis     | ICD-10-CM |
| S19.82   | Other specified injuries of cervical trachea                                     | Diagnosis     | ICD-10-CM |
| S19.82XA | Other specified injuries of cervical trachea, initial encounter                  | Diagnosis     | ICD-10-CM |
| S19.82XD | Other specified injuries of cervical trachea, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S19.82XS | Other specified injuries of cervical trachea, sequela                            | Diagnosis     | ICD-10-CM |
| S19.83   | Other specified injuries of vocal cord   | Diagnosis     | ICD-10-CM |
| S19.83XA | Other specified injuries of vocal cord, initial encounter                        | Diagnosis     | ICD-10-CM |
| S19.83XD | Other specified injuries of vocal cord, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S19.83XS | Other specified injuries of vocal cord, sequela                                  | Diagnosis     | ICD-10-CM |
| S19.84   | Other specified injuries of thyroid gland  | Diagnosis     | ICD-10-CM |
| S19.84XA | Other specified injuries of thyroid gland, initial encounter                     | Diagnosis     | ICD-10-CM |
| S19.84XD | Other specified injuries of thyroid gland, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S19.84XS | Other specified injuries of thyroid gland, sequela                               | Diagnosis     | ICD-10-CM |
| S19.85   | Other specified injuries of pharynx and cervical esophagus                       | Diagnosis     | ICD-10-CM |
| S19.85XA | Other specified injuries of pharynx and cervical esophagus, initial encounter    | Diagnosis     | ICD-10-CM |
| S19.85XD | Other specified injuries of pharynx and cervical esophagus, subsequent encounter | Diagnosis     | ICD-10-CM |
| S19.85XS | Other specified injuries of pharynx and cervical esophagus, sequela              | Diagnosis     | ICD-10-CM |
| S19.89   | Other specified injuries of other specified part of neck                         | Diagnosis     | ICD-10-CM |
| S19.89XA | Other specified injuries of other specified part of neck, initial encounter      | Diagnosis     | ICD-10-CM |
| S19.89XD | Other specified injuries of other specified part of neck, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S19.89XS | Other specified injuries of other specified part of neck, sequela                | Diagnosis     | ICD-10-CM |
| S19.9    | Unspecified injury of neck   | Diagnosis     | ICD-10-CM |
| S19.9XXA | Unspecified injury of neck, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S19.9XXD | Unspecified injury of neck, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S19.9XXS | Unspecified injury of neck, sequela  | Diagnosis     | ICD-10-CM |
| S20      | Superficial injury of thorax   | Diagnosis     | ICD-10-CM |
| S20.0    | Contusion of breast  | Diagnosis     | ICD-10-CM |
| S20.00   | Contusion of breast, unspecified breast  | Diagnosis     | ICD-10-CM |
| S20.00XA | Contusion of breast, unspecified breast, initial encounter                       | Diagnosis     | ICD-10-CM |
| S20.00XD | Contusion of breast, unspecified breast, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S20.00XS | Contusion of breast, unspecified breast, sequela                                 | Diagnosis     | ICD-10-CM |
| S20.01   | Contusion of right breast  | Diagnosis     | ICD-10-CM |
| S20.01XA | Contusion of right breast, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S20.01XD | Contusion of right breast, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S20.01XS | Contusion of right breast, sequela   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S20.02   | Contusion of left breast   | Diagnosis     | ICD-10-CM |
| S20.02XA | Contusion of left breast, initial encounter  | Diagnosis     | ICD-10-CM |
| S20.02XD | Contusion of left breast, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S20.02XS | Contusion of left breast, sequela  | Diagnosis     | ICD-10-CM |
| S20.1    | Other and unspecified superficial injuries of breast                                 | Diagnosis     | ICD-10-CM |
| S20.10   | Unspecified superficial injuries of breast   | Diagnosis     | ICD-10-CM |
| S20.101  | Unspecified superficial injuries of breast, right breast                             | Diagnosis     | ICD-10-CM |
| S20.101A | Unspecified superficial injuries of breast, right breast, initial encounter          | Diagnosis     | ICD-10-CM |
| S20.101D | Unspecified superficial injuries of breast, right breast, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S20.101S | Unspecified superficial injuries of breast, right breast, sequela                    | Diagnosis     | ICD-10-CM |
| S20.102  | Unspecified superficial injuries of breast, left breast                              | Diagnosis     | ICD-10-CM |
| S20.102A | Unspecified superficial injuries of breast, left breast, initial encounter           | Diagnosis     | ICD-10-CM |
| S20.102D | Unspecified superficial injuries of breast, left breast, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S20.102S | Unspecified superficial injuries of breast, left breast, sequela                     | Diagnosis     | ICD-10-CM |
| S20.109  | Unspecified superficial injuries of breast, unspecified breast                       | Diagnosis     | ICD-10-CM |
| S20.109A | Unspecified superficial injuries of breast, unspecified breast, initial encounter    | Diagnosis     | ICD-10-CM |
| S20.109D | Unspecified superficial injuries of breast, unspecified breast, subsequent encounter | Diagnosis     | ICD-10-CM |
| S20.109S | Unspecified superficial injuries of breast, unspecified breast, sequela              | Diagnosis     | ICD-10-CM |
| S20.11   | Abrasion of breast   | Diagnosis     | ICD-10-CM |
| S20.111  | Abrasion of breast, right breast   | Diagnosis     | ICD-10-CM |
| S20.111A | Abrasion of breast, right breast, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S20.111D | Abrasion of breast, right breast, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S20.111S | Abrasion of breast, right breast, sequela  | Diagnosis     | ICD-10-CM |
| S20.112  | Abrasion of breast, left breast  | Diagnosis     | ICD-10-CM |
| S20.112A | Abrasion of breast, left breast, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S20.112D | Abrasion of breast, left breast, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S20.112S | Abrasion of breast, left breast, sequela   | Diagnosis     | ICD-10-CM |
| S20.119  | Abrasion of breast, unspecified breast   | Diagnosis     | ICD-10-CM |
| S20.119A | Abrasion of breast, unspecified breast, initial encounter                            | Diagnosis     | ICD-10-CM |
| S20.119D | Abrasion of breast, unspecified breast, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S20.119S | Abrasion of breast, unspecified breast, sequela                                      | Diagnosis     | ICD-10-CM |
| S20.12   | Blister (nonthermal) of breast   | Diagnosis     | ICD-10-CM |
| S20.121  | Blister (nonthermal) of breast, right breast   | Diagnosis     | ICD-10-CM |
| S20.121A | Blister (nonthermal) of breast, right breast, initial encounter                      | Diagnosis     | ICD-10-CM |
| S20.121D | Blister (nonthermal) of breast, right breast, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S20.121S | Blister (nonthermal) of breast, right breast, sequela                                | Diagnosis     | ICD-10-CM |
| S20.122  | Blister (nonthermal) of breast, left breast  | Diagnosis     | ICD-10-CM |
| S20.122A | Blister (nonthermal) of breast, left breast, initial encounter                       | Diagnosis     | ICD-10-CM |
| S20.122D | Blister (nonthermal) of breast, left breast, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S20.122S | Blister (nonthermal) of breast, left breast, sequela                                 | Diagnosis     | ICD-10-CM |
| S20.129  | Blister (nonthermal) of breast, unspecified breast                                   | Diagnosis     | ICD-10-CM |
| S20.129A | Blister (nonthermal) of breast, unspecified breast, initial encounter                | Diagnosis     | ICD-10-CM |
| S20.129D | Blister (nonthermal) of breast, unspecified breast, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S20.129S | Blister (nonthermal) of breast, unspecified breast, sequela                          | Diagnosis     | ICD-10-CM |
| S20.14   | External constriction of part of breast  | Diagnosis     | ICD-10-CM |
| S20.141  | External constriction of part of breast, right breast                                | Diagnosis     | ICD-10-CM |
| S20.141A | External constriction of part of breast, right breast, initial encounter             | Diagnosis     | ICD-10-CM |
| S20.141D | External constriction of part of breast, right breast, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S20.141S | External constriction of part of breast, right breast, sequela                       | Diagnosis     | ICD-10-CM |
| S20.142  | External constriction of part of breast, left breast                                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S20.142A | External constriction of part of breast, left breast, initial encounter           | Diagnosis     | ICD-10-CM |
| S20.142D | External constriction of part of breast, left breast, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S20.142S | External constriction of part of breast, left breast, sequela                     | Diagnosis     | ICD-10-CM |
| S20.149  | External constriction of part of breast, unspecified breast                       | Diagnosis     | ICD-10-CM |
| S20.149A | External constriction of part of breast, unspecified breast, initial encounter    | Diagnosis     | ICD-10-CM |
| S20.149D | External constriction of part of breast, unspecified breast, subsequent encounter | Diagnosis     | ICD-10-CM |
| S20.149S | External constriction of part of breast, unspecified breast, sequela              | Diagnosis     | ICD-10-CM |
| S20.15   | Superficial foreign body of breast  | Diagnosis     | ICD-10-CM |
| S20.151  | Superficial foreign body of breast, right breast                                  | Diagnosis     | ICD-10-CM |
| S20.151A | Superficial foreign body of breast, right breast, initial encounter               | Diagnosis     | ICD-10-CM |
| S20.151D | Superficial foreign body of breast, right breast, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S20.151S | Superficial foreign body of breast, right breast, sequela                         | Diagnosis     | ICD-10-CM |
| S20.152  | Superficial foreign body of breast, left breast                                   | Diagnosis     | ICD-10-CM |
| S20.152A | Superficial foreign body of breast, left breast, initial encounter                | Diagnosis     | ICD-10-CM |
| S20.152D | Superficial foreign body of breast, left breast, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S20.152S | Superficial foreign body of breast, left breast, sequela                          | Diagnosis     | ICD-10-CM |
| S20.159  | Superficial foreign body of breast, unspecified breast                            | Diagnosis     | ICD-10-CM |
| S20.159A | Superficial foreign body of breast, unspecified breast, initial encounter         | Diagnosis     | ICD-10-CM |
| S20.159D | Superficial foreign body of breast, unspecified breast, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S20.159S | Superficial foreign body of breast, unspecified breast, sequela                   | Diagnosis     | ICD-10-CM |
| S20.16   | Insect bite (nonvenomous) of breast   | Diagnosis     | ICD-10-CM |
| S20.161  | Insect bite (nonvenomous) of breast, right breast                                 | Diagnosis     | ICD-10-CM |
| S20.161A | Insect bite (nonvenomous) of breast, right breast, initial encounter              | Diagnosis     | ICD-10-CM |
| S20.161D | Insect bite (nonvenomous) of breast, right breast, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S20.161S | Insect bite (nonvenomous) of breast, right breast, sequela                        | Diagnosis     | ICD-10-CM |
| S20.162  | Insect bite (nonvenomous) of breast, left breast                                  | Diagnosis     | ICD-10-CM |
| S20.162A | Insect bite (nonvenomous) of breast, left breast, initial encounter               | Diagnosis     | ICD-10-CM |
| S20.162D | Insect bite (nonvenomous) of breast, left breast, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S20.162S | Insect bite (nonvenomous) of breast, left breast, sequela                         | Diagnosis     | ICD-10-CM |
| S20.169  | Insect bite (nonvenomous) of breast, unspecified breast                           | Diagnosis     | ICD-10-CM |
| S20.169A | Insect bite (nonvenomous) of breast, unspecified breast, initial encounter        | Diagnosis     | ICD-10-CM |
| S20.169D | Insect bite (nonvenomous) of breast, unspecified breast, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S20.169S | Insect bite (nonvenomous) of breast, unspecified breast, sequela                  | Diagnosis     | ICD-10-CM |
| S20.17   | Other superficial bite of breast  | Diagnosis     | ICD-10-CM |
| S20.171  | Other superficial bite of breast, right breast                                    | Diagnosis     | ICD-10-CM |
| S20.171A | Other superficial bite of breast, right breast, initial encounter                 | Diagnosis     | ICD-10-CM |
| S20.171D | Other superficial bite of breast, right breast, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S20.171S | Other superficial bite of breast, right breast, sequela                           | Diagnosis     | ICD-10-CM |
| S20.172  | Other superficial bite of breast, left breast                                     | Diagnosis     | ICD-10-CM |
| S20.172A | Other superficial bite of breast, left breast, initial encounter                  | Diagnosis     | ICD-10-CM |
| S20.172D | Other superficial bite of breast, left breast, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S20.172S | Other superficial bite of breast, left breast, sequela                            | Diagnosis     | ICD-10-CM |
| S20.179  | Other superficial bite of breast, unspecified breast                              | Diagnosis     | ICD-10-CM |
| S20.179A | Other superficial bite of breast, unspecified breast, initial encounter           | Diagnosis     | ICD-10-CM |
| S20.179D | Other superficial bite of breast, unspecified breast, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S20.179S | Other superficial bite of breast, unspecified breast, sequela                     | Diagnosis     | ICD-10-CM |
| S20.2    | Contusion of thorax   | Diagnosis     | ICD-10-CM |
| S20.20   | Contusion of thorax, unspecified  | Diagnosis     | ICD-10-CM |
| S20.20XA | Contusion of thorax, unspecified, initial encounter                               | Diagnosis     | ICD-10-CM |
| S20.20XD | Contusion of thorax, unspecified, subsequent encounter                            | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S20.20XS | Contusion of thorax, unspecified, sequela  | Diagnosis     | ICD-10-CM |
| S20.21   | Contusion of front wall of thorax  | Diagnosis     | ICD-10-CM |
| S20.211  | Contusion of right front wall of thorax  | Diagnosis     | ICD-10-CM |
| S20.211A | Contusion of right front wall of thorax, initial encounter                           | Diagnosis     | ICD-10-CM |
| S20.211D | Contusion of right front wall of thorax, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S20.211S | Contusion of right front wall of thorax, sequela                                     | Diagnosis     | ICD-10-CM |
| S20.212  | Contusion of left front wall of thorax   | Diagnosis     | ICD-10-CM |
| S20.212A | Contusion of left front wall of thorax, initial encounter                            | Diagnosis     | ICD-10-CM |
| S20.212D | Contusion of left front wall of thorax, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S20.212S | Contusion of left front wall of thorax, sequela                                      | Diagnosis     | ICD-10-CM |
| S20.213  | Contusion of bilateral front wall of thorax  | Diagnosis     | ICD-10-CM |
| S20.213A | Contusion of bilateral front wall of thorax, initial encounter                       | Diagnosis     | ICD-10-CM |
| S20.213D | Contusion of bilateral front wall of thorax, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S20.213S | Contusion of bilateral front wall of thorax, sequela                                 | Diagnosis     | ICD-10-CM |
| S20.214  | Contusion of middle front wall of thorax   | Diagnosis     | ICD-10-CM |
| S20.214A | Contusion of middle front wall of thorax, initial encounter                          | Diagnosis     | ICD-10-CM |
| S20.214D | Contusion of middle front wall of thorax, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S20.214S | Contusion of middle front wall of thorax, sequela                                    | Diagnosis     | ICD-10-CM |
| S20.219  | Contusion of unspecified front wall of thorax  | Diagnosis     | ICD-10-CM |
| S20.219A | Contusion of unspecified front wall of thorax, initial encounter                     | Diagnosis     | ICD-10-CM |
| S20.219D | Contusion of unspecified front wall of thorax, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S20.219S | Contusion of unspecified front wall of thorax, sequela                               | Diagnosis     | ICD-10-CM |
| S20.22   | Contusion of back wall of thorax   | Diagnosis     | ICD-10-CM |
| S20.221  | Contusion of right back wall of thorax   | Diagnosis     | ICD-10-CM |
| S20.221A | Contusion of right back wall of thorax, initial encounter                            | Diagnosis     | ICD-10-CM |
| S20.221D | Contusion of right back wall of thorax, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S20.221S | Contusion of right back wall of thorax, sequela                                      | Diagnosis     | ICD-10-CM |
| S20.222  | Contusion of left back wall of thorax  | Diagnosis     | ICD-10-CM |
| S20.222A | Contusion of left back wall of thorax, initial encounter                             | Diagnosis     | ICD-10-CM |
| S20.222D | Contusion of left back wall of thorax, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S20.222S | Contusion of left back wall of thorax, sequela                                       | Diagnosis     | ICD-10-CM |
| S20.223  | Contusion of bilateral back wall of thorax   | Diagnosis     | ICD-10-CM |
| S20.223A | Contusion of bilateral back wall of thorax, initial encounter                        | Diagnosis     | ICD-10-CM |
| S20.223D | Contusion of bilateral back wall of thorax, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S20.223S | Contusion of bilateral back wall of thorax, sequela                                  | Diagnosis     | ICD-10-CM |
| S20.224  | Contusion of middle back wall of thorax  | Diagnosis     | ICD-10-CM |
| S20.224A | Contusion of middle back wall of thorax, initial encounter                           | Diagnosis     | ICD-10-CM |
| S20.224D | Contusion of middle back wall of thorax, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S20.224S | Contusion of middle back wall of thorax, sequela                                     | Diagnosis     | ICD-10-CM |
| S20.229  | Contusion of unspecified back wall of thorax   | Diagnosis     | ICD-10-CM |
| S20.229A | Contusion of unspecified back wall of thorax, initial encounter                      | Diagnosis     | ICD-10-CM |
| S20.229D | Contusion of unspecified back wall of thorax, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S20.229S | Contusion of unspecified back wall of thorax, sequela                                | Diagnosis     | ICD-10-CM |
| S20.3    | Other and unspecified superficial injuries of front wall of thorax                   | Diagnosis     | ICD-10-CM |
| S20.30   | Unspecified superficial injuries of front wall of thorax                             | Diagnosis     | ICD-10-CM |
| S20.301  | Unspecified superficial injuries of right front wall of thorax                       | Diagnosis     | ICD-10-CM |
| S20.301A | Unspecified superficial injuries of right front wall of thorax, initial encounter    | Diagnosis     | ICD-10-CM |
| S20.301D | Unspecified superficial injuries of right front wall of thorax, subsequent encounter | Diagnosis     | ICD-10-CM |
| S20.301S | Unspecified superficial injuries of right front wall of thorax, sequela              | Diagnosis     | ICD-10-CM |
| S20.302  | Unspecified superficial injuries of left front wall of thorax                        | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S20.302A | Unspecified superficial injuries of left front wall of thorax, initial encounter           | Diagnosis     | ICD-10-CM |
| S20.302D | Unspecified superficial injuries of left front wall of thorax, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S20.302S | Unspecified superficial injuries of left front wall of thorax, sequela                     | Diagnosis     | ICD-10-CM |
| S20.303  | Unspecified superficial injuries of bilateral front wall of thorax                         | Diagnosis     | ICD-10-CM |
| S20.303A | Unspecified superficial injuries of bilateral front wall of thorax, initial encounter      | Diagnosis     | ICD-10-CM |
| S20.303D | Unspecified superficial injuries of bilateral front wall of thorax, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S20.303S | Unspecified superficial injuries of bilateral front wall of thorax, sequela                | Diagnosis     | ICD-10-CM |
| S20.304  | Unspecified superficial injuries of middle front wall of thorax                            | Diagnosis     | ICD-10-CM |
| S20.304A | Unspecified superficial injuries of middle front wall of thorax, initial encounter         | Diagnosis     | ICD-10-CM |
| S20.304D | Unspecified superficial injuries of middle front wall of thorax, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S20.304S | Unspecified superficial injuries of middle front wall of thorax, sequela                   | Diagnosis     | ICD-10-CM |
| S20.309  | Unspecified superficial injuries of unspecified front wall of thorax                       | Diagnosis     | ICD-10-CM |
| S20.309A | Unspecified superficial injuries of unspecified front wall of thorax, initial encounter    | Diagnosis     | ICD-10-CM |
| S20.309D | Unspecified superficial injuries of unspecified front wall of thorax, subsequent encounter | Diagnosis     | ICD-10-CM |
| S20.309S | Unspecified superficial injuries of unspecified front wall of thorax, sequela              | Diagnosis     | ICD-10-CM |
| S20.31   | Abrasion of front wall of thorax   | Diagnosis     | ICD-10-CM |
| S20.311  | Abrasion of right front wall of thorax   | Diagnosis     | ICD-10-CM |
| S20.311A | Abrasion of right front wall of thorax, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S20.311D | Abrasion of right front wall of thorax, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S20.311S | Abrasion of right front wall of thorax, sequela  | Diagnosis     | ICD-10-CM |
| S20.312  | Abrasion of left front wall of thorax  | Diagnosis     | ICD-10-CM |
| S20.312A | Abrasion of left front wall of thorax, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S20.312D | Abrasion of left front wall of thorax, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S20.312S | Abrasion of left front wall of thorax, sequela   | Diagnosis     | ICD-10-CM |
| S20.313  | Abrasion of bilateral front wall of thorax   | Diagnosis     | ICD-10-CM |
| S20.313A | Abrasion of bilateral front wall of thorax, initial encounter                              | Diagnosis     | ICD-10-CM |
| S20.313D | Abrasion of bilateral front wall of thorax, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S20.313S | Abrasion of bilateral front wall of thorax, sequela  | Diagnosis     | ICD-10-CM |
| S20.314  | Abrasion of middle front wall of thorax  | Diagnosis     | ICD-10-CM |
| S20.314A | Abrasion of middle front wall of thorax, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S20.314D | Abrasion of middle front wall of thorax, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S20.314S | Abrasion of middle front wall of thorax, sequela   | Diagnosis     | ICD-10-CM |
| S20.319  | Abrasion of unspecified front wall of thorax   | Diagnosis     | ICD-10-CM |
| S20.319A | Abrasion of unspecified front wall of thorax, initial encounter                            | Diagnosis     | ICD-10-CM |
| S20.319D | Abrasion of unspecified front wall of thorax, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S20.319S | Abrasion of unspecified front wall of thorax, sequela                                      | Diagnosis     | ICD-10-CM |
| S20.32   | Blister (nonthermal) of front wall of thorax   | Diagnosis     | ICD-10-CM |
| S20.321  | Blister (nonthermal) of right front wall of thorax   | Diagnosis     | ICD-10-CM |
| S20.321A | Blister (nonthermal) of right front wall of thorax, initial encounter                      | Diagnosis     | ICD-10-CM |
| S20.321D | Blister (nonthermal) of right front wall of thorax, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S20.321S | Blister (nonthermal) of right front wall of thorax, sequela                                | Diagnosis     | ICD-10-CM |
| S20.322  | Blister (nonthermal) of left front wall of thorax  | Diagnosis     | ICD-10-CM |
| S20.322A | Blister (nonthermal) of left front wall of thorax, initial encounter                       | Diagnosis     | ICD-10-CM |
| S20.322D | Blister (nonthermal) of left front wall of thorax, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S20.322S | Blister (nonthermal) of left front wall of thorax, sequela                                 | Diagnosis     | ICD-10-CM |
| S20.323  | Blister (nonthermal) of bilateral front wall of thorax                                     | Diagnosis     | ICD-10-CM |
| S20.323A | Blister (nonthermal) of bilateral front wall of thorax, initial encounter                  | Diagnosis     | ICD-10-CM |
| S20.323D | Blister (nonthermal) of bilateral front wall of thorax, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S20.323S | Blister (nonthermal) of bilateral front wall of thorax, sequela                            | Diagnosis     | ICD-10-CM |
| S20.324  | Blister (nonthermal) of middle front wall of thorax  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S20.324A | Blister (nonthermal) of middle front wall of thorax, initial encounter             | Diagnosis     | ICD-10-CM |
| S20.324D | Blister (nonthermal) of middle front wall of thorax, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S20.324S | Blister (nonthermal) of middle front wall of thorax, sequela                       | Diagnosis     | ICD-10-CM |
| S20.329  | Blister (nonthermal) of unspecified front wall of thorax                           | Diagnosis     | ICD-10-CM |
| S20.329A | Blister (nonthermal) of unspecified front wall of thorax, initial encounter        | Diagnosis     | ICD-10-CM |
| S20.329D | Blister (nonthermal) of unspecified front wall of thorax, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S20.329S | Blister (nonthermal) of unspecified front wall of thorax, sequela                  | Diagnosis     | ICD-10-CM |
| S20.34   | External constriction of front wall of thorax                                      | Diagnosis     | ICD-10-CM |
| S20.341  | External constriction of right front wall of thorax                                | Diagnosis     | ICD-10-CM |
| S20.341A | External constriction of right front wall of thorax, initial encounter             | Diagnosis     | ICD-10-CM |
| S20.341D | External constriction of right front wall of thorax, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S20.341S | External constriction of right front wall of thorax, sequela                       | Diagnosis     | ICD-10-CM |
| S20.342  | External constriction of left front wall of thorax                                 | Diagnosis     | ICD-10-CM |
| S20.342A | External constriction of left front wall of thorax, initial encounter              | Diagnosis     | ICD-10-CM |
| S20.342D | External constriction of left front wall of thorax, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S20.342S | External constriction of left front wall of thorax, sequela                        | Diagnosis     | ICD-10-CM |
| S20.343  | External constriction of bilateral front wall of thorax                            | Diagnosis     | ICD-10-CM |
| S20.343A | External constriction of bilateral front wall of thorax, initial encounter         | Diagnosis     | ICD-10-CM |
| S20.343D | External constriction of bilateral front wall of thorax, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S20.343S | External constriction of bilateral front wall of thorax, sequela                   | Diagnosis     | ICD-10-CM |
| S20.344  | External constriction of middle front wall of thorax                               | Diagnosis     | ICD-10-CM |
| S20.344A | External constriction of middle front wall of thorax, initial encounter            | Diagnosis     | ICD-10-CM |
| S20.344D | External constriction of middle front wall of thorax, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S20.344S | External constriction of middle front wall of thorax, sequela                      | Diagnosis     | ICD-10-CM |
| S20.349  | External constriction of unspecified front wall of thorax                          | Diagnosis     | ICD-10-CM |
| S20.349A | External constriction of unspecified front wall of thorax, initial encounter       | Diagnosis     | ICD-10-CM |
| S20.349D | External constriction of unspecified front wall of thorax, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S20.349S | External constriction of unspecified front wall of thorax, sequela                 | Diagnosis     | ICD-10-CM |
| S20.35   | Superficial foreign body of front wall of thorax                                   | Diagnosis     | ICD-10-CM |
| S20.351  | Superficial foreign body of right front wall of thorax                             | Diagnosis     | ICD-10-CM |
| S20.351A | Superficial foreign body of right front wall of thorax, initial encounter          | Diagnosis     | ICD-10-CM |
| S20.351D | Superficial foreign body of right front wall of thorax, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S20.351S | Superficial foreign body of right front wall of thorax, sequela                    | Diagnosis     | ICD-10-CM |
| S20.352  | Superficial foreign body of left front wall of thorax                              | Diagnosis     | ICD-10-CM |
| S20.352A | Superficial foreign body of left front wall of thorax, initial encounter           | Diagnosis     | ICD-10-CM |
| S20.352D | Superficial foreign body of left front wall of thorax, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S20.352S | Superficial foreign body of left front wall of thorax, sequela                     | Diagnosis     | ICD-10-CM |
| S20.353  | Superficial foreign body of bilateral front wall of thorax                         | Diagnosis     | ICD-10-CM |
| S20.353A | Superficial foreign body of bilateral front wall of thorax, initial encounter      | Diagnosis     | ICD-10-CM |
| S20.353D | Superficial foreign body of bilateral front wall of thorax, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S20.353S | Superficial foreign body of bilateral front wall of thorax, sequela                | Diagnosis     | ICD-10-CM |
| S20.354  | Superficial foreign body of middle front wall of thorax                            | Diagnosis     | ICD-10-CM |
| S20.354A | Superficial foreign body of middle front wall of thorax, initial encounter         | Diagnosis     | ICD-10-CM |
| S20.354D | Superficial foreign body of middle front wall of thorax, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S20.354S | Superficial foreign body of middle front wall of thorax, sequela                   | Diagnosis     | ICD-10-CM |
| S20.359  | Superficial foreign body of unspecified front wall of thorax                       | Diagnosis     | ICD-10-CM |
| S20.359A | Superficial foreign body of unspecified front wall of thorax, initial encounter    | Diagnosis     | ICD-10-CM |
| S20.359D | Superficial foreign body of unspecified front wall of thorax, subsequent encounter | Diagnosis     | ICD-10-CM |
| S20.359S | Superficial foreign body of unspecified front wall of thorax, sequela              | Diagnosis     | ICD-10-CM |
| S20.36   | Insect bite (nonvenomous) of front wall of thorax                                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S20.361  | Insect bite (nonvenomous) of right front wall of thorax                             | Diagnosis     | ICD-10-CM |
| S20.361A | Insect bite (nonvenomous) of right front wall of thorax, initial encounter          | Diagnosis     | ICD-10-CM |
| S20.361D | Insect bite (nonvenomous) of right front wall of thorax, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S20.361S | Insect bite (nonvenomous) of right front wall of thorax, sequela                    | Diagnosis     | ICD-10-CM |
| S20.362  | Insect bite (nonvenomous) of left front wall of thorax                              | Diagnosis     | ICD-10-CM |
| S20.362A | Insect bite (nonvenomous) of left front wall of thorax, initial encounter           | Diagnosis     | ICD-10-CM |
| S20.362D | Insect bite (nonvenomous) of left front wall of thorax, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S20.362S | Insect bite (nonvenomous) of left front wall of thorax, sequela                     | Diagnosis     | ICD-10-CM |
| S20.363  | Insect bite (nonvenomous) of bilateral front wall of thorax                         | Diagnosis     | ICD-10-CM |
| S20.363A | Insect bite (nonvenomous) of bilateral front wall of thorax, initial encounter      | Diagnosis     | ICD-10-CM |
| S20.363D | Insect bite (nonvenomous) of bilateral front wall of thorax, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S20.363S | Insect bite (nonvenomous) of bilateral front wall of thorax, sequela                | Diagnosis     | ICD-10-CM |
| S20.364  | Insect bite (nonvenomous) of middle front wall of thorax                            | Diagnosis     | ICD-10-CM |
| S20.364A | Insect bite (nonvenomous) of middle front wall of thorax, initial encounter         | Diagnosis     | ICD-10-CM |
| S20.364D | Insect bite (nonvenomous) of middle front wall of thorax, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S20.364S | Insect bite (nonvenomous) of middle front wall of thorax, sequela                   | Diagnosis     | ICD-10-CM |
| S20.369  | Insect bite (nonvenomous) of unspecified front wall of thorax                       | Diagnosis     | ICD-10-CM |
| S20.369A | Insect bite (nonvenomous) of unspecified front wall of thorax, initial encounter    | Diagnosis     | ICD-10-CM |
| S20.369D | Insect bite (nonvenomous) of unspecified front wall of thorax, subsequent encounter | Diagnosis     | ICD-10-CM |
| S20.369S | Insect bite (nonvenomous) of unspecified front wall of thorax, sequela              | Diagnosis     | ICD-10-CM |
| S20.37   | Other superficial bite of front wall of thorax                                      | Diagnosis     | ICD-10-CM |
| S20.371  | Other superficial bite of right front wall of thorax                                | Diagnosis     | ICD-10-CM |
| S20.371A | Other superficial bite of right front wall of thorax, initial encounter             | Diagnosis     | ICD-10-CM |
| S20.371D | Other superficial bite of right front wall of thorax, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S20.371S | Other superficial bite of right front wall of thorax, sequela                       | Diagnosis     | ICD-10-CM |
| S20.372  | Other superficial bite of left front wall of thorax                                 | Diagnosis     | ICD-10-CM |
| S20.372A | Other superficial bite of left front wall of thorax, initial encounter              | Diagnosis     | ICD-10-CM |
| S20.372D | Other superficial bite of left front wall of thorax, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S20.372S | Other superficial bite of left front wall of thorax, sequela                        | Diagnosis     | ICD-10-CM |
| S20.373  | Other superficial bite of bilateral front wall of thorax                            | Diagnosis     | ICD-10-CM |
| S20.373A | Other superficial bite of bilateral front wall of thorax, initial encounter         | Diagnosis     | ICD-10-CM |
| S20.373D | Other superficial bite of bilateral front wall of thorax, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S20.373S | Other superficial bite of bilateral front wall of thorax, sequela                   | Diagnosis     | ICD-10-CM |
| S20.374  | Other superficial bite of middle front wall of thorax                               | Diagnosis     | ICD-10-CM |
| S20.374A | Other superficial bite of middle front wall of thorax, initial encounter            | Diagnosis     | ICD-10-CM |
| S20.374D | Other superficial bite of middle front wall of thorax, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S20.374S | Other superficial bite of middle front wall of thorax, sequela                      | Diagnosis     | ICD-10-CM |
| S20.379  | Other superficial bite of unspecified front wall of thorax                          | Diagnosis     | ICD-10-CM |
| S20.379A | Other superficial bite of unspecified front wall of thorax, initial encounter       | Diagnosis     | ICD-10-CM |
| S20.379D | Other superficial bite of unspecified front wall of thorax, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S20.379S | Other superficial bite of unspecified front wall of thorax, sequela                 | Diagnosis     | ICD-10-CM |
| S20.4    | Other and unspecified superficial injuries of back wall of thorax                   | Diagnosis     | ICD-10-CM |
| S20.40   | Unspecified superficial injuries of back wall of thorax                             | Diagnosis     | ICD-10-CM |
| S20.401  | Unspecified superficial injuries of right back wall of thorax                       | Diagnosis     | ICD-10-CM |
| S20.401A | Unspecified superficial injuries of right back wall of thorax, initial encounter    | Diagnosis     | ICD-10-CM |
| S20.401D | Unspecified superficial injuries of right back wall of thorax, subsequent encounter | Diagnosis     | ICD-10-CM |
| S20.401S | Unspecified superficial injuries of right back wall of thorax, sequela              | Diagnosis     | ICD-10-CM |
| S20.402  | Unspecified superficial injuries of left back wall of thorax                        | Diagnosis     | ICD-10-CM |
| S20.402A | Unspecified superficial injuries of left back wall of thorax, initial encounter     | Diagnosis     | ICD-10-CM |
| S20.402D | Unspecified superficial injuries of left back wall of thorax, subsequent encounter  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S20.402S | Unspecified superficial injuries of left back wall of thorax, sequela                     | Diagnosis     | ICD-10-CM |
| S20.409  | Unspecified superficial injuries of unspecified back wall of thorax                       | Diagnosis     | ICD-10-CM |
| S20.409A | Unspecified superficial injuries of unspecified back wall of thorax, initial encounter    | Diagnosis     | ICD-10-CM |
| S20.409D | Unspecified superficial injuries of unspecified back wall of thorax, subsequent encounter | Diagnosis     | ICD-10-CM |
| S20.409S | Unspecified superficial injuries of unspecified back wall of thorax, sequela              | Diagnosis     | ICD-10-CM |
| S20.41   | Abrasion of back wall of thorax   | Diagnosis     | ICD-10-CM |
| S20.411  | Abrasion of right back wall of thorax   | Diagnosis     | ICD-10-CM |
| S20.411A | Abrasion of right back wall of thorax, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S20.411D | Abrasion of right back wall of thorax, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S20.411S | Abrasion of right back wall of thorax, sequela  | Diagnosis     | ICD-10-CM |
| S20.412  | Abrasion of left back wall of thorax  | Diagnosis     | ICD-10-CM |
| S20.412A | Abrasion of left back wall of thorax, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S20.412D | Abrasion of left back wall of thorax, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S20.412S | Abrasion of left back wall of thorax, sequela   | Diagnosis     | ICD-10-CM |
| S20.419  | Abrasion of unspecified back wall of thorax   | Diagnosis     | ICD-10-CM |
| S20.419A | Abrasion of unspecified back wall of thorax, initial encounter                            | Diagnosis     | ICD-10-CM |
| S20.419D | Abrasion of unspecified back wall of thorax, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S20.419S | Abrasion of unspecified back wall of thorax, sequela                                      | Diagnosis     | ICD-10-CM |
| S20.42   | Blister (nonthermal) of back wall of thorax   | Diagnosis     | ICD-10-CM |
| S20.421  | Blister (nonthermal) of right back wall of thorax   | Diagnosis     | ICD-10-CM |
| S20.421A | Blister (nonthermal) of right back wall of thorax, initial encounter                      | Diagnosis     | ICD-10-CM |
| S20.421D | Blister (nonthermal) of right back wall of thorax, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S20.421S | Blister (nonthermal) of right back wall of thorax, sequela                                | Diagnosis     | ICD-10-CM |
| S20.422  | Blister (nonthermal) of left back wall of thorax  | Diagnosis     | ICD-10-CM |
| S20.422A | Blister (nonthermal) of left back wall of thorax, initial encounter                       | Diagnosis     | ICD-10-CM |
| S20.422D | Blister (nonthermal) of left back wall of thorax, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S20.422S | Blister (nonthermal) of left back wall of thorax, sequela                                 | Diagnosis     | ICD-10-CM |
| S20.429  | Blister (nonthermal) of unspecified back wall of thorax                                   | Diagnosis     | ICD-10-CM |
| S20.429A | Blister (nonthermal) of unspecified back wall of thorax, initial encounter                | Diagnosis     | ICD-10-CM |
| S20.429D | Blister (nonthermal) of unspecified back wall of thorax, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S20.429S | Blister (nonthermal) of unspecified back wall of thorax, sequela                          | Diagnosis     | ICD-10-CM |
| S20.44   | External constriction of back wall of thorax  | Diagnosis     | ICD-10-CM |
| S20.441  | External constriction of right back wall of thorax  | Diagnosis     | ICD-10-CM |
| S20.441A | External constriction of right back wall of thorax, initial encounter                     | Diagnosis     | ICD-10-CM |
| S20.441D | External constriction of right back wall of thorax, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S20.441S | External constriction of right back wall of thorax, sequela                               | Diagnosis     | ICD-10-CM |
| S20.442  | External constriction of left back wall of thorax   | Diagnosis     | ICD-10-CM |
| S20.442A | External constriction of left back wall of thorax, initial encounter                      | Diagnosis     | ICD-10-CM |
| S20.442D | External constriction of left back wall of thorax, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S20.442S | External constriction of left back wall of thorax, sequela                                | Diagnosis     | ICD-10-CM |
| S20.449  | External constriction of unspecified back wall of thorax                                  | Diagnosis     | ICD-10-CM |
| S20.449A | External constriction of unspecified back wall of thorax, initial encounter               | Diagnosis     | ICD-10-CM |
| S20.449D | External constriction of unspecified back wall of thorax, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S20.449S | External constriction of unspecified back wall of thorax, sequela                         | Diagnosis     | ICD-10-CM |
| S20.45   | Superficial foreign body of back wall of thorax   | Diagnosis     | ICD-10-CM |
| S20.451  | Superficial foreign body of right back wall of thorax                                     | Diagnosis     | ICD-10-CM |
| S20.451A | Superficial foreign body of right back wall of thorax, initial encounter                  | Diagnosis     | ICD-10-CM |
| S20.451D | Superficial foreign body of right back wall of thorax, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S20.451S | Superficial foreign body of right back wall of thorax, sequela                            | Diagnosis     | ICD-10-CM |
| S20.452  | Superficial foreign body of left back wall of thorax                                      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S20.452A | Superficial foreign body of left back wall of thorax, initial encounter             | Diagnosis     | ICD-10-CM |
| S20.452D | Superficial foreign body of left back wall of thorax, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S20.452S | Superficial foreign body of left back wall of thorax, sequela                       | Diagnosis     | ICD-10-CM |
| S20.459  | Superficial foreign body of unspecified back wall of thorax                         | Diagnosis     | ICD-10-CM |
| S20.459A | Superficial foreign body of unspecified back wall of thorax, initial encounter      | Diagnosis     | ICD-10-CM |
| S20.459D | Superficial foreign body of unspecified back wall of thorax, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S20.459S | Superficial foreign body of unspecified back wall of thorax, sequela                | Diagnosis     | ICD-10-CM |
| S20.46   | Insect bite (nonvenomous) of back wall of thorax                                    | Diagnosis     | ICD-10-CM |
| S20.461  | Insect bite (nonvenomous) of right back wall of thorax                              | Diagnosis     | ICD-10-CM |
| S20.461A | Insect bite (nonvenomous) of right back wall of thorax, initial encounter           | Diagnosis     | ICD-10-CM |
| S20.461D | Insect bite (nonvenomous) of right back wall of thorax, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S20.461S | Insect bite (nonvenomous) of right back wall of thorax, sequela                     | Diagnosis     | ICD-10-CM |
| S20.462  | Insect bite (nonvenomous) of left back wall of thorax                               | Diagnosis     | ICD-10-CM |
| S20.462A | Insect bite (nonvenomous) of left back wall of thorax, initial encounter            | Diagnosis     | ICD-10-CM |
| S20.462D | Insect bite (nonvenomous) of left back wall of thorax, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S20.462S | Insect bite (nonvenomous) of left back wall of thorax, sequela                      | Diagnosis     | ICD-10-CM |
| S20.469  | Insect bite (nonvenomous) of unspecified back wall of thorax                        | Diagnosis     | ICD-10-CM |
| S20.469A | Insect bite (nonvenomous) of unspecified back wall of thorax, initial encounter     | Diagnosis     | ICD-10-CM |
| S20.469D | Insect bite (nonvenomous) of unspecified back wall of thorax, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S20.469S | Insect bite (nonvenomous) of unspecified back wall of thorax, sequela               | Diagnosis     | ICD-10-CM |
| S20.47   | Other superficial bite of back wall of thorax                                       | Diagnosis     | ICD-10-CM |
| S20.471  | Other superficial bite of right back wall of thorax                                 | Diagnosis     | ICD-10-CM |
| S20.471A | Other superficial bite of right back wall of thorax, initial encounter              | Diagnosis     | ICD-10-CM |
| S20.471D | Other superficial bite of right back wall of thorax, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S20.471S | Other superficial bite of right back wall of thorax, sequela                        | Diagnosis     | ICD-10-CM |
| S20.472  | Other superficial bite of left back wall of thorax                                  | Diagnosis     | ICD-10-CM |
| S20.472A | Other superficial bite of left back wall of thorax, initial encounter               | Diagnosis     | ICD-10-CM |
| S20.472D | Other superficial bite of left back wall of thorax, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S20.472S | Other superficial bite of left back wall of thorax, sequela                         | Diagnosis     | ICD-10-CM |
| S20.479  | Other superficial bite of unspecified back wall of thorax                           | Diagnosis     | ICD-10-CM |
| S20.479A | Other superficial bite of unspecified back wall of thorax, initial encounter        | Diagnosis     | ICD-10-CM |
| S20.479D | Other superficial bite of unspecified back wall of thorax, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S20.479S | Other superficial bite of unspecified back wall of thorax, sequela                  | Diagnosis     | ICD-10-CM |
| S20.9    | Superficial injury of unspecified parts of thorax                                   | Diagnosis     | ICD-10-CM |
| S20.90   | Unspecified superficial injury of unspecified parts of thorax                       | Diagnosis     | ICD-10-CM |
| S20.90XA | Unspecified superficial injury of unspecified parts of thorax, initial encounter    | Diagnosis     | ICD-10-CM |
| S20.90XD | Unspecified superficial injury of unspecified parts of thorax, subsequent encounter | Diagnosis     | ICD-10-CM |
| S20.90XS | Unspecified superficial injury of unspecified parts of thorax, sequela              | Diagnosis     | ICD-10-CM |
| S20.91   | Abrasion of unspecified parts of thorax   | Diagnosis     | ICD-10-CM |
| S20.91XA | Abrasion of unspecified parts of thorax, initial encounter                          | Diagnosis     | ICD-10-CM |
| S20.91XD | Abrasion of unspecified parts of thorax, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S20.91XS | Abrasion of unspecified parts of thorax, sequela                                    | Diagnosis     | ICD-10-CM |
| S20.92   | Blister (nonthermal) of unspecified parts of thorax                                 | Diagnosis     | ICD-10-CM |
| S20.92XA | Blister (nonthermal) of unspecified parts of thorax, initial encounter              | Diagnosis     | ICD-10-CM |
| S20.92XD | Blister (nonthermal) of unspecified parts of thorax, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S20.92XS | Blister (nonthermal) of unspecified parts of thorax, sequela                        | Diagnosis     | ICD-10-CM |
| S20.94   | External constriction of unspecified parts of thorax                                | Diagnosis     | ICD-10-CM |
| S20.94XA | External constriction of unspecified parts of thorax, initial encounter             | Diagnosis     | ICD-10-CM |
| S20.94XD | External constriction of unspecified parts of thorax, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S20.94XS | External constriction of unspecified parts of thorax, sequela                       | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S20.95   | Superficial foreign body of unspecified parts of thorax                        | Diagnosis     | ICD-10-CM |
| S20.95XA | Superficial foreign body of unspecified parts of thorax, initial encounter     | Diagnosis     | ICD-10-CM |
| S20.95XD | Superficial foreign body of unspecified parts of thorax, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S20.95XS | Superficial foreign body of unspecified parts of thorax, sequela               | Diagnosis     | ICD-10-CM |
| S20.96   | Insect bite (nonvenomous) of unspecified parts of thorax                       | Diagnosis     | ICD-10-CM |
| S20.96XA | Insect bite (nonvenomous) of unspecified parts of thorax, initial encounter    | Diagnosis     | ICD-10-CM |
| S20.96XD | Insect bite (nonvenomous) of unspecified parts of thorax, subsequent encounter | Diagnosis     | ICD-10-CM |
| S20.96XS | Insect bite (nonvenomous) of unspecified parts of thorax, sequela              | Diagnosis     | ICD-10-CM |
| S20.97   | Other superficial bite of unspecified parts of thorax                          | Diagnosis     | ICD-10-CM |
| S20.97XA | Other superficial bite of unspecified parts of thorax, initial encounter       | Diagnosis     | ICD-10-CM |
| S20.97XD | Other superficial bite of unspecified parts of thorax, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S20.97XS | Other superficial bite of unspecified parts of thorax, sequela                 | Diagnosis     | ICD-10-CM |
| S21      | Open wound of thorax   | Diagnosis     | ICD-10-CM |
| S21.0    | Open wound of breast   | Diagnosis     | ICD-10-CM |
| S21.00   | Unspecified open wound of breast   | Diagnosis     | ICD-10-CM |
| S21.001  | Unspecified open wound of right breast   | Diagnosis     | ICD-10-CM |
| S21.001A | Unspecified open wound of right breast, initial encounter                      | Diagnosis     | ICD-10-CM |
| S21.001D | Unspecified open wound of right breast, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S21.001S | Unspecified open wound of right breast, sequela                                | Diagnosis     | ICD-10-CM |
| S21.002  | Unspecified open wound of left breast  | Diagnosis     | ICD-10-CM |
| S21.002A | Unspecified open wound of left breast, initial encounter                       | Diagnosis     | ICD-10-CM |
| S21.002D | Unspecified open wound of left breast, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S21.002S | Unspecified open wound of left breast, sequela                                 | Diagnosis     | ICD-10-CM |
| S21.009  | Unspecified open wound of unspecified breast                                   | Diagnosis     | ICD-10-CM |
| S21.009A | Unspecified open wound of unspecified breast, initial encounter                | Diagnosis     | ICD-10-CM |
| S21.009D | Unspecified open wound of unspecified breast, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S21.009S | Unspecified open wound of unspecified breast, sequela                          | Diagnosis     | ICD-10-CM |
| S21.01   | Laceration without foreign body of breast                                      | Diagnosis     | ICD-10-CM |
| S21.011  | Laceration without foreign body of right breast                                | Diagnosis     | ICD-10-CM |
| S21.011A | Laceration without foreign body of right breast, initial encounter             | Diagnosis     | ICD-10-CM |
| S21.011D | Laceration without foreign body of right breast, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S21.011S | Laceration without foreign body of right breast, sequela                       | Diagnosis     | ICD-10-CM |
| S21.012  | Laceration without foreign body of left breast                                 | Diagnosis     | ICD-10-CM |
| S21.012A | Laceration without foreign body of left breast, initial encounter              | Diagnosis     | ICD-10-CM |
| S21.012D | Laceration without foreign body of left breast, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S21.012S | Laceration without foreign body of left breast, sequela                        | Diagnosis     | ICD-10-CM |
| S21.019  | Laceration without foreign body of unspecified breast                          | Diagnosis     | ICD-10-CM |
| S21.019A | Laceration without foreign body of unspecified breast, initial encounter       | Diagnosis     | ICD-10-CM |
| S21.019D | Laceration without foreign body of unspecified breast, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S21.019S | Laceration without foreign body of unspecified breast, sequela                 | Diagnosis     | ICD-10-CM |
| S21.02   | Laceration with foreign body of breast   | Diagnosis     | ICD-10-CM |
| S21.021  | Laceration with foreign body of right breast                                   | Diagnosis     | ICD-10-CM |
| S21.021A | Laceration with foreign body of right breast, initial encounter                | Diagnosis     | ICD-10-CM |
| S21.021D | Laceration with foreign body of right breast, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S21.021S | Laceration with foreign body of right breast, sequela                          | Diagnosis     | ICD-10-CM |
| S21.022  | Laceration with foreign body of left breast                                    | Diagnosis     | ICD-10-CM |
| S21.022A | Laceration with foreign body of left breast, initial encounter                 | Diagnosis     | ICD-10-CM |
| S21.022D | Laceration with foreign body of left breast, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S21.022S | Laceration with foreign body of left breast, sequela                           | Diagnosis     | ICD-10-CM |
| S21.029  | Laceration with foreign body of unspecified breast                             | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S21.029A | Laceration with foreign body of unspecified breast, initial encounter   | Diagnosis     | ICD-10-CM |
| S21.029D | Laceration with foreign body of unspecified breast, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S21.029S | Laceration with foreign body of unspecified breast, sequela   | Diagnosis     | ICD-10-CM |
| S21.03   | Puncture wound without foreign body of breast   | Diagnosis     | ICD-10-CM |
| S21.031  | Puncture wound without foreign body of right breast   | Diagnosis     | ICD-10-CM |
| S21.031A | Puncture wound without foreign body of right breast, initial encounter  | Diagnosis     | ICD-10-CM |
| S21.031D | Puncture wound without foreign body of right breast, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S21.031S | Puncture wound without foreign body of right breast, sequela  | Diagnosis     | ICD-10-CM |
| S21.032  | Puncture wound without foreign body of left breast  | Diagnosis     | ICD-10-CM |
| S21.032A | Puncture wound without foreign body of left breast, initial encounter   | Diagnosis     | ICD-10-CM |
| S21.032D | Puncture wound without foreign body of left breast, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S21.032S | Puncture wound without foreign body of left breast, sequela   | Diagnosis     | ICD-10-CM |
| S21.039  | Puncture wound without foreign body of unspecified breast   | Diagnosis     | ICD-10-CM |
| S21.039A | Puncture wound without foreign body of unspecified breast, initial encounter  | Diagnosis     | ICD-10-CM |
| S21.039D | Puncture wound without foreign body of unspecified breast, subsequent encounter                                     | Diagnosis     | ICD-10-CM |
| S21.039S | Puncture wound without foreign body of unspecified breast, sequela  | Diagnosis     | ICD-10-CM |
| S21.04   | Puncture wound with foreign body of breast  | Diagnosis     | ICD-10-CM |
| S21.041  | Puncture wound with foreign body of right breast  | Diagnosis     | ICD-10-CM |
| S21.041A | Puncture wound with foreign body of right breast, initial encounter   | Diagnosis     | ICD-10-CM |
| S21.041D | Puncture wound with foreign body of right breast, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S21.041S | Puncture wound with foreign body of right breast, sequela   | Diagnosis     | ICD-10-CM |
| S21.042  | Puncture wound with foreign body of left breast   | Diagnosis     | ICD-10-CM |
| S21.042A | Puncture wound with foreign body of left breast, initial encounter  | Diagnosis     | ICD-10-CM |
| S21.042D | Puncture wound with foreign body of left breast, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S21.042S | Puncture wound with foreign body of left breast, sequela  | Diagnosis     | ICD-10-CM |
| S21.049  | Puncture wound with foreign body of unspecified breast  | Diagnosis     | ICD-10-CM |
| S21.049A | Puncture wound with foreign body of unspecified breast, initial encounter   | Diagnosis     | ICD-10-CM |
| S21.049D | Puncture wound with foreign body of unspecified breast, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S21.049S | Puncture wound with foreign body of unspecified breast, sequela   | Diagnosis     | ICD-10-CM |
| S21.05   | Open bite of breast   | Diagnosis     | ICD-10-CM |
| S21.051  | Open bite of right breast   | Diagnosis     | ICD-10-CM |
| S21.051A | Open bite of right breast, initial encounter  | Diagnosis     | ICD-10-CM |
| S21.051D | Open bite of right breast, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S21.051S | Open bite of right breast, sequela  | Diagnosis     | ICD-10-CM |
| S21.052  | Open bite of left breast  | Diagnosis     | ICD-10-CM |
| S21.052A | Open bite of left breast, initial encounter   | Diagnosis     | ICD-10-CM |
| S21.052D | Open bite of left breast, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S21.052S | Open bite of left breast, sequela   | Diagnosis     | ICD-10-CM |
| S21.059  | Open bite of unspecified breast   | Diagnosis     | ICD-10-CM |
| S21.059A | Open bite of unspecified breast, initial encounter  | Diagnosis     | ICD-10-CM |
| S21.059D | Open bite of unspecified breast, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S21.059S | Open bite of unspecified breast, sequela  | Diagnosis     | ICD-10-CM |
| S21.1    | Open wound of front wall of thorax without penetration into thoracic cavity   | Diagnosis     | ICD-10-CM |
| S21.10   | Unspecified open wound of front wall of thorax without penetration into thoracic cavity                             | Diagnosis     | ICD-10-CM |
| S21.101  | Unspecified open wound of right front wall of thorax without penetration into thoracic cavity                       | Diagnosis     | ICD-10-CM |
| S21.101A | Unspecified open wound of right front wall of thorax without penetration into thoracic cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S21.101D | Unspecified open wound of right front wall of thorax without penetration into thoracic cavity, subsequent encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S21.101S | Unspecified open wound of right front wall of thorax without penetration into thoracic cavity, sequela                             | Diagnosis     | ICD-10-CM |
| S21.102  | Unspecified open wound of left front wall of thorax without penetration into thoracic cavity                                       | Diagnosis     | ICD-10-CM |
| S21.102A | Unspecified open wound of left front wall of thorax without penetration into thoracic cavity, initial encounter                    | Diagnosis     | ICD-10-CM |
| S21.102D | Unspecified open wound of left front wall of thorax without penetration into thoracic cavity, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S21.102S | Unspecified open wound of left front wall of thorax without penetration into thoracic cavity, sequela                              | Diagnosis     | ICD-10-CM |
| S21.109  | Unspecified open wound of unspecified front wall of thorax without penetration into thoracic cavity                                | Diagnosis     | ICD-10-CM |
| S21.109A | Unspecified open wound of unspecified front wall of thorax without penetration into thoracic cavity, initial encounter             | Diagnosis     | ICD-10-CM |
| S21.109D | Unspecified open wound of unspecified front wall of thorax without penetration into thoracic cavity, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S21.109S | Unspecified open wound of unspecified front wall of thorax without penetration into thoracic cavity, sequela                       | Diagnosis     | ICD-10-CM |
| S21.11   | Laceration without foreign body of front wall of thorax without penetration into thoracic cavity                                   | Diagnosis     | ICD-10-CM |
| S21.111  | Laceration without foreign body of right front wall of thorax without penetration into thoracic cavity                             | Diagnosis     | ICD-10-CM |
| S21.111A | Laceration without foreign body of right front wall of thorax without penetration into thoracic cavity, initial encounter          | Diagnosis     | ICD-10-CM |
| S21.111D | Laceration without foreign body of right front wall of thorax without penetration into thoracic cavity, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S21.111S | Laceration without foreign body of right front wall of thorax without penetration into thoracic cavity, sequela                    | Diagnosis     | ICD-10-CM |
| S21.112  | Laceration without foreign body of left front wall of thorax without penetration into thoracic cavity                              | Diagnosis     | ICD-10-CM |
| S21.112A | Laceration without foreign body of left front wall of thorax without penetration into thoracic cavity, initial encounter           | Diagnosis     | ICD-10-CM |
| S21.112D | Laceration without foreign body of left front wall of thorax without penetration into thoracic cavity, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S21.112S | Laceration without foreign body of left front wall of thorax without penetration into thoracic cavity, sequela                     | Diagnosis     | ICD-10-CM |
| S21.119  | Laceration without foreign body of unspecified front wall of thorax without penetration into thoracic cavity                       | Diagnosis     | ICD-10-CM |
| S21.119A | Laceration without foreign body of unspecified front wall of thorax without penetration into thoracic cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S21.119D | Laceration without foreign body of unspecified front wall of thorax without penetration into thoracic cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S21.119S | Laceration without foreign body of unspecified front wall of thorax without penetration into thoracic cavity, sequela              | Diagnosis     | ICD-10-CM |
| S21.12   | Laceration with foreign body of front wall of thorax without penetration into thoracic cavity                                      | Diagnosis     | ICD-10-CM |
| S21.121  | Laceration with foreign body of right front wall of thorax without penetration into thoracic cavity                                | Diagnosis     | ICD-10-CM |
| S21.121A | Laceration with foreign body of right front wall of thorax without penetration into thoracic cavity, initial encounter             | Diagnosis     | ICD-10-CM |
| S21.121D | Laceration with foreign body of right front wall of thorax without penetration into thoracic cavity, subsequent encounter          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S21.121S | Laceration with foreign body of right front wall of thorax without penetration into thoracic cavity, sequela                           | Diagnosis     | ICD-10-CM |
| S21.122  | Laceration with foreign body of left front wall of thorax without penetration into thoracic cavity                                     | Diagnosis     | ICD-10-CM |
| S21.122A | Laceration with foreign body of left front wall of thorax without penetration into thoracic cavity, initial encounter                  | Diagnosis     | ICD-10-CM |
| S21.122D | Laceration with foreign body of left front wall of thorax without penetration into thoracic cavity, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S21.122S | Laceration with foreign body of left front wall of thorax without penetration into thoracic cavity, sequela                            | Diagnosis     | ICD-10-CM |
| S21.129  | Laceration with foreign body of unspecified front wall of thorax without penetration into thoracic cavity                              | Diagnosis     | ICD-10-CM |
| S21.129A | Laceration with foreign body of unspecified front wall of thorax without penetration into thoracic cavity, initial encounter           | Diagnosis     | ICD-10-CM |
| S21.129D | Laceration with foreign body of unspecified front wall of thorax without penetration into thoracic cavity, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S21.129S | Laceration with foreign body of unspecified front wall of thorax without penetration into thoracic cavity, sequela                     | Diagnosis     | ICD-10-CM |
| S21.13   | Puncture wound without foreign body of front wall of thorax without penetration into thoracic cavity                                   | Diagnosis     | ICD-10-CM |
| S21.131  | Puncture wound without foreign body of right front wall of thorax without penetration into thoracic cavity                             | Diagnosis     | ICD-10-CM |
| S21.131A | Puncture wound without foreign body of right front wall of thorax without penetration into thoracic cavity, initial encounter          | Diagnosis     | ICD-10-CM |
| S21.131D | Puncture wound without foreign body of right front wall of thorax without penetration into thoracic cavity, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S21.131S | Puncture wound without foreign body of right front wall of thorax without penetration into thoracic cavity, sequela                    | Diagnosis     | ICD-10-CM |
| S21.132  | Puncture wound without foreign body of left front wall of thorax without penetration into thoracic cavity                              | Diagnosis     | ICD-10-CM |
| S21.132A | Puncture wound without foreign body of left front wall of thorax without penetration into thoracic cavity, initial encounter           | Diagnosis     | ICD-10-CM |
| S21.132D | Puncture wound without foreign body of left front wall of thorax without penetration into thoracic cavity, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S21.132S | Puncture wound without foreign body of left front wall of thorax without penetration into thoracic cavity, sequela                     | Diagnosis     | ICD-10-CM |
| S21.139  | Puncture wound without foreign body of unspecified front wall of thorax without penetration into thoracic cavity                       | Diagnosis     | ICD-10-CM |
| S21.139A | Puncture wound without foreign body of unspecified front wall of thorax without penetration into thoracic cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S21.139D | Puncture wound without foreign body of unspecified front wall of thorax without penetration into thoracic cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S21.139S | Puncture wound without foreign body of unspecified front wall of thorax without penetration into thoracic cavity, sequela              | Diagnosis     | ICD-10-CM |
| S21.14   | Puncture wound with foreign body of front wall of thorax without penetration into thoracic cavity                                      | Diagnosis     | ICD-10-CM |
| S21.141  | Puncture wound with foreign body of right front wall of thorax without penetration into thoracic cavity                                | Diagnosis     | ICD-10-CM |
| S21.141A | Puncture wound with foreign body of right front wall of thorax without penetration into thoracic cavity, initial encounter             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S21.141D | Puncture wound with foreign body of right front wall of thorax without penetration into thoracic cavity, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S21.141S | Puncture wound with foreign body of right front wall of thorax without penetration into thoracic cavity, sequela                    | Diagnosis     | ICD-10-CM |
| S21.142  | Puncture wound with foreign body of left front wall of thorax without penetration into thoracic cavity                              | Diagnosis     | ICD-10-CM |
| S21.142A | Puncture wound with foreign body of left front wall of thorax without penetration into thoracic cavity, initial encounter           | Diagnosis     | ICD-10-CM |
| S21.142D | Puncture wound with foreign body of left front wall of thorax without penetration into thoracic cavity, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S21.142S | Puncture wound with foreign body of left front wall of thorax without penetration into thoracic cavity, sequela                     | Diagnosis     | ICD-10-CM |
| S21.149  | Puncture wound with foreign body of unspecified front wall of thorax without penetration into thoracic cavity                       | Diagnosis     | ICD-10-CM |
| S21.149A | Puncture wound with foreign body of unspecified front wall of thorax without penetration into thoracic cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S21.149D | Puncture wound with foreign body of unspecified front wall of thorax without penetration into thoracic cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S21.149S | Puncture wound with foreign body of unspecified front wall of thorax without penetration into thoracic cavity, sequela              | Diagnosis     | ICD-10-CM |
| S21.15   | Open bite of front wall of thorax without penetration into thoracic cavity  | Diagnosis     | ICD-10-CM |
| S21.151  | Open bite of right front wall of thorax without penetration into thoracic cavity  | Diagnosis     | ICD-10-CM |
| S21.151A | Open bite of right front wall of thorax without penetration into thoracic cavity, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S21.151D | Open bite of right front wall of thorax without penetration into thoracic cavity, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S21.151S | Open bite of right front wall of thorax without penetration into thoracic cavity, sequela   | Diagnosis     | ICD-10-CM |
| S21.152  | Open bite of left front wall of thorax without penetration into thoracic cavity   | Diagnosis     | ICD-10-CM |
| S21.152A | Open bite of left front wall of thorax without penetration into thoracic cavity, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S21.152D | Open bite of left front wall of thorax without penetration into thoracic cavity, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S21.152S | Open bite of left front wall of thorax without penetration into thoracic cavity, sequela  | Diagnosis     | ICD-10-CM |
| S21.159  | Open bite of unspecified front wall of thorax without penetration into thoracic cavity  | Diagnosis     | ICD-10-CM |
| S21.159A | Open bite of unspecified front wall of thorax without penetration into thoracic cavity, initial encounter                           | Diagnosis     | ICD-10-CM |
| S21.159D | Open bite of unspecified front wall of thorax without penetration into thoracic cavity, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S21.159S | Open bite of unspecified front wall of thorax without penetration into thoracic cavity, sequela                                     | Diagnosis     | ICD-10-CM |
| S21.2    | Open wound of back wall of thorax without penetration into thoracic cavity  | Diagnosis     | ICD-10-CM |
| S21.20   | Unspecified open wound of back wall of thorax without penetration into thoracic cavity  | Diagnosis     | ICD-10-CM |
| S21.201  | Unspecified open wound of right back wall of thorax without penetration into thoracic cavity  | Diagnosis     | ICD-10-CM |
| S21.201A | Unspecified open wound of right back wall of thorax without penetration into thoracic cavity, initial encounter                     | Diagnosis     | ICD-10-CM |
| S21.201D | Unspecified open wound of right back wall of thorax without penetration into thoracic cavity, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S21.201S | Unspecified open wound of right back wall of thorax without penetration into thoracic cavity, sequela                               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S21.202  | Unspecified open wound of left back wall of thorax without penetration into thoracic cavity                                       | Diagnosis     | ICD-10-CM |
| S21.202A | Unspecified open wound of left back wall of thorax without penetration into thoracic cavity, initial encounter                    | Diagnosis     | ICD-10-CM |
| S21.202D | Unspecified open wound of left back wall of thorax without penetration into thoracic cavity, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S21.202S | Unspecified open wound of left back wall of thorax without penetration into thoracic cavity, sequela                              | Diagnosis     | ICD-10-CM |
| S21.209  | Unspecified open wound of unspecified back wall of thorax without penetration into thoracic cavity                                | Diagnosis     | ICD-10-CM |
| S21.209A | Unspecified open wound of unspecified back wall of thorax without penetration into thoracic cavity, initial encounter             | Diagnosis     | ICD-10-CM |
| S21.209D | Unspecified open wound of unspecified back wall of thorax without penetration into thoracic cavity, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S21.209S | Unspecified open wound of unspecified back wall of thorax without penetration into thoracic cavity, sequela                       | Diagnosis     | ICD-10-CM |
| S21.21   | Laceration without foreign body of back wall of thorax without penetration into thoracic cavity                                   | Diagnosis     | ICD-10-CM |
| S21.211  | Laceration without foreign body of right back wall of thorax without penetration into thoracic cavity                             | Diagnosis     | ICD-10-CM |
| S21.211A | Laceration without foreign body of right back wall of thorax without penetration into thoracic cavity, initial encounter          | Diagnosis     | ICD-10-CM |
| S21.211D | Laceration without foreign body of right back wall of thorax without penetration into thoracic cavity, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S21.211S | Laceration without foreign body of right back wall of thorax without penetration into thoracic cavity, sequela                    | Diagnosis     | ICD-10-CM |
| S21.212  | Laceration without foreign body of left back wall of thorax without penetration into thoracic cavity                              | Diagnosis     | ICD-10-CM |
| S21.212A | Laceration without foreign body of left back wall of thorax without penetration into thoracic cavity, initial encounter           | Diagnosis     | ICD-10-CM |
| S21.212D | Laceration without foreign body of left back wall of thorax without penetration into thoracic cavity, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S21.212S | Laceration without foreign body of left back wall of thorax without penetration into thoracic cavity, sequela                     | Diagnosis     | ICD-10-CM |
| S21.219  | Laceration without foreign body of unspecified back wall of thorax without penetration into thoracic cavity                       | Diagnosis     | ICD-10-CM |
| S21.219A | Laceration without foreign body of unspecified back wall of thorax without penetration into thoracic cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S21.219D | Laceration without foreign body of unspecified back wall of thorax without penetration into thoracic cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S21.219S | Laceration without foreign body of unspecified back wall of thorax without penetration into thoracic cavity, sequela              | Diagnosis     | ICD-10-CM |
| S21.22   | Laceration with foreign body of back wall of thorax without penetration into thoracic cavity                                      | Diagnosis     | ICD-10-CM |
| S21.221  | Laceration with foreign body of right back wall of thorax without penetration into thoracic cavity                                | Diagnosis     | ICD-10-CM |
| S21.221A | Laceration with foreign body of right back wall of thorax without penetration into thoracic cavity, initial encounter             | Diagnosis     | ICD-10-CM |
| S21.221D | Laceration with foreign body of right back wall of thorax without penetration into thoracic cavity, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S21.221S | Laceration with foreign body of right back wall of thorax without penetration into thoracic cavity, sequela                       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S21.222  | Laceration with foreign body of left back wall of thorax without penetration into thoracic cavity                                     | Diagnosis     | ICD-10-CM |
| S21.222A | Laceration with foreign body of left back wall of thorax without penetration into thoracic cavity, initial encounter                  | Diagnosis     | ICD-10-CM |
| S21.222D | Laceration with foreign body of left back wall of thorax without penetration into thoracic cavity, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S21.222S | Laceration with foreign body of left back wall of thorax without penetration into thoracic cavity, sequela                            | Diagnosis     | ICD-10-CM |
| S21.229  | Laceration with foreign body of unspecified back wall of thorax without penetration into thoracic cavity                              | Diagnosis     | ICD-10-CM |
| S21.229A | Laceration with foreign body of unspecified back wall of thorax without penetration into thoracic cavity, initial encounter           | Diagnosis     | ICD-10-CM |
| S21.229D | Laceration with foreign body of unspecified back wall of thorax without penetration into thoracic cavity, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S21.229S | Laceration with foreign body of unspecified back wall of thorax without penetration into thoracic cavity, sequela                     | Diagnosis     | ICD-10-CM |
| S21.23   | Puncture wound without foreign body of back wall of thorax without penetration into thoracic cavity                                   | Diagnosis     | ICD-10-CM |
| S21.231  | Puncture wound without foreign body of right back wall of thorax without penetration into thoracic cavity                             | Diagnosis     | ICD-10-CM |
| S21.231A | Puncture wound without foreign body of right back wall of thorax without penetration into thoracic cavity, initial encounter          | Diagnosis     | ICD-10-CM |
| S21.231D | Puncture wound without foreign body of right back wall of thorax without penetration into thoracic cavity, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S21.231S | Puncture wound without foreign body of right back wall of thorax without penetration into thoracic cavity, sequela                    | Diagnosis     | ICD-10-CM |
| S21.232  | Puncture wound without foreign body of left back wall of thorax without penetration into thoracic cavity                              | Diagnosis     | ICD-10-CM |
| S21.232A | Puncture wound without foreign body of left back wall of thorax without penetration into thoracic cavity, initial encounter           | Diagnosis     | ICD-10-CM |
| S21.232D | Puncture wound without foreign body of left back wall of thorax without penetration into thoracic cavity, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S21.232S | Puncture wound without foreign body of left back wall of thorax without penetration into thoracic cavity, sequela                     | Diagnosis     | ICD-10-CM |
| S21.239  | Puncture wound without foreign body of unspecified back wall of thorax without penetration into thoracic cavity                       | Diagnosis     | ICD-10-CM |
| S21.239A | Puncture wound without foreign body of unspecified back wall of thorax without penetration into thoracic cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S21.239D | Puncture wound without foreign body of unspecified back wall of thorax without penetration into thoracic cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S21.239S | Puncture wound without foreign body of unspecified back wall of thorax without penetration into thoracic cavity, sequela              | Diagnosis     | ICD-10-CM |
| S21.24   | Puncture wound with foreign body of back wall of thorax without penetration into thoracic cavity                                      | Diagnosis     | ICD-10-CM |
| S21.241  | Puncture wound with foreign body of right back wall of thorax without penetration into thoracic cavity                                | Diagnosis     | ICD-10-CM |
| S21.241A | Puncture wound with foreign body of right back wall of thorax without penetration into thoracic cavity, initial encounter             | Diagnosis     | ICD-10-CM |
| S21.241D | Puncture wound with foreign body of right back wall of thorax without penetration into thoracic cavity, subsequent encounter          | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S21.241S | Puncture wound with foreign body of right back wall of thorax without penetration into thoracic cavity, sequela                    | Diagnosis     | ICD-10-CM |
| S21.242  | Puncture wound with foreign body of left back wall of thorax without penetration into thoracic cavity                              | Diagnosis     | ICD-10-CM |
| S21.242A | Puncture wound with foreign body of left back wall of thorax without penetration into thoracic cavity, initial encounter           | Diagnosis     | ICD-10-CM |
| S21.242D | Puncture wound with foreign body of left back wall of thorax without penetration into thoracic cavity, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S21.242S | Puncture wound with foreign body of left back wall of thorax without penetration into thoracic cavity, sequela                     | Diagnosis     | ICD-10-CM |
| S21.249  | Puncture wound with foreign body of unspecified back wall of thorax without penetration into thoracic cavity                       | Diagnosis     | ICD-10-CM |
| S21.249A | Puncture wound with foreign body of unspecified back wall of thorax without penetration into thoracic cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S21.249D | Puncture wound with foreign body of unspecified back wall of thorax without penetration into thoracic cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S21.249S | Puncture wound with foreign body of unspecified back wall of thorax without penetration into thoracic cavity, sequela              | Diagnosis     | ICD-10-CM |
| S21.25   | Open bite of back wall of thorax without penetration into thoracic cavity  | Diagnosis     | ICD-10-CM |
| S21.251  | Open bite of right back wall of thorax without penetration into thoracic cavity  | Diagnosis     | ICD-10-CM |
| S21.251A | Open bite of right back wall of thorax without penetration into thoracic cavity, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S21.251D | Open bite of right back wall of thorax without penetration into thoracic cavity, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S21.251S | Open bite of right back wall of thorax without penetration into thoracic cavity, sequela   | Diagnosis     | ICD-10-CM |
| S21.252  | Open bite of left back wall of thorax without penetration into thoracic cavity   | Diagnosis     | ICD-10-CM |
| S21.252A | Open bite of left back wall of thorax without penetration into thoracic cavity, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S21.252D | Open bite of left back wall of thorax without penetration into thoracic cavity, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S21.252S | Open bite of left back wall of thorax without penetration into thoracic cavity, sequela  | Diagnosis     | ICD-10-CM |
| S21.259  | Open bite of unspecified back wall of thorax without penetration into thoracic cavity  | Diagnosis     | ICD-10-CM |
| S21.259A | Open bite of unspecified back wall of thorax without penetration into thoracic cavity, initial encounter                           | Diagnosis     | ICD-10-CM |
| S21.259D | Open bite of unspecified back wall of thorax without penetration into thoracic cavity, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S21.259S | Open bite of unspecified back wall of thorax without penetration into thoracic cavity, sequela                                     | Diagnosis     | ICD-10-CM |
| S21.3    | Open wound of front wall of thorax with penetration into thoracic cavity   | Diagnosis     | ICD-10-CM |
| S21.30   | Unspecified open wound of front wall of thorax with penetration into thoracic cavity   | Diagnosis     | ICD-10-CM |
| S21.301  | Unspecified open wound of right front wall of thorax with penetration into thoracic cavity   | Diagnosis     | ICD-10-CM |
| S21.301A | Unspecified open wound of right front wall of thorax with penetration into thoracic cavity, initial encounter                      | Diagnosis     | ICD-10-CM |
| S21.301D | Unspecified open wound of right front wall of thorax with penetration into thoracic cavity, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S21.301S | Unspecified open wound of right front wall of thorax with penetration into thoracic cavity, sequela                                | Diagnosis     | ICD-10-CM |
| S21.302  | Unspecified open wound of left front wall of thorax with penetration into thoracic cavity  | Diagnosis     | ICD-10-CM |
| S21.302A | Unspecified open wound of left front wall of thorax with penetration into thoracic cavity, initial encounter                       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S21.302D | Unspecified open wound of left front wall of thorax with penetration into thoracic cavity, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S21.302S | Unspecified open wound of left front wall of thorax with penetration into thoracic cavity, sequela                              | Diagnosis     | ICD-10-CM |
| S21.309  | Unspecified open wound of unspecified front wall of thorax with penetration into thoracic cavity                                | Diagnosis     | ICD-10-CM |
| S21.309A | Unspecified open wound of unspecified front wall of thorax with penetration into thoracic cavity, initial encounter             | Diagnosis     | ICD-10-CM |
| S21.309D | Unspecified open wound of unspecified front wall of thorax with penetration into thoracic cavity, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S21.309S | Unspecified open wound of unspecified front wall of thorax with penetration into thoracic cavity, sequela                       | Diagnosis     | ICD-10-CM |
| S21.31   | Laceration without foreign body of front wall of thorax with penetration into thoracic cavity                                   | Diagnosis     | ICD-10-CM |
| S21.311  | Laceration without foreign body of right front wall of thorax with penetration into thoracic cavity                             | Diagnosis     | ICD-10-CM |
| S21.311A | Laceration without foreign body of right front wall of thorax with penetration into thoracic cavity, initial encounter          | Diagnosis     | ICD-10-CM |
| S21.311D | Laceration without foreign body of right front wall of thorax with penetration into thoracic cavity, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S21.311S | Laceration without foreign body of right front wall of thorax with penetration into thoracic cavity, sequela                    | Diagnosis     | ICD-10-CM |
| S21.312  | Laceration without foreign body of left front wall of thorax with penetration into thoracic cavity                              | Diagnosis     | ICD-10-CM |
| S21.312A | Laceration without foreign body of left front wall of thorax with penetration into thoracic cavity, initial encounter           | Diagnosis     | ICD-10-CM |
| S21.312D | Laceration without foreign body of left front wall of thorax with penetration into thoracic cavity, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S21.312S | Laceration without foreign body of left front wall of thorax with penetration into thoracic cavity, sequela                     | Diagnosis     | ICD-10-CM |
| S21.319  | Laceration without foreign body of unspecified front wall of thorax with penetration into thoracic cavity                       | Diagnosis     | ICD-10-CM |
| S21.319A | Laceration without foreign body of unspecified front wall of thorax with penetration into thoracic cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S21.319D | Laceration without foreign body of unspecified front wall of thorax with penetration into thoracic cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S21.319S | Laceration without foreign body of unspecified front wall of thorax with penetration into thoracic cavity, sequela              | Diagnosis     | ICD-10-CM |
| S21.32   | Laceration with foreign body of front wall of thorax with penetration into thoracic cavity                                      | Diagnosis     | ICD-10-CM |
| S21.321  | Laceration with foreign body of right front wall of thorax with penetration into thoracic cavity                                | Diagnosis     | ICD-10-CM |
| S21.321A | Laceration with foreign body of right front wall of thorax with penetration into thoracic cavity, initial encounter             | Diagnosis     | ICD-10-CM |
| S21.321D | Laceration with foreign body of right front wall of thorax with penetration into thoracic cavity, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S21.321S | Laceration with foreign body of right front wall of thorax with penetration into thoracic cavity, sequela                       | Diagnosis     | ICD-10-CM |
| S21.322  | Laceration with foreign body of left front wall of thorax with penetration into thoracic cavity                                 | Diagnosis     | ICD-10-CM |
| S21.322A | Laceration with foreign body of left front wall of thorax with penetration into thoracic cavity, initial encounter              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S21.322D | Laceration with foreign body of left front wall of thorax with penetration into thoracic cavity, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S21.322S | Laceration with foreign body of left front wall of thorax with penetration into thoracic cavity, sequela                            | Diagnosis     | ICD-10-CM |
| S21.329  | Laceration with foreign body of unspecified front wall of thorax with penetration into thoracic cavity                              | Diagnosis     | ICD-10-CM |
| S21.329A | Laceration with foreign body of unspecified front wall of thorax with penetration into thoracic cavity, initial encounter           | Diagnosis     | ICD-10-CM |
| S21.329D | Laceration with foreign body of unspecified front wall of thorax with penetration into thoracic cavity, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S21.329S | Laceration with foreign body of unspecified front wall of thorax with penetration into thoracic cavity, sequela                     | Diagnosis     | ICD-10-CM |
| S21.33   | Puncture wound without foreign body of front wall of thorax with penetration into thoracic cavity                                   | Diagnosis     | ICD-10-CM |
| S21.331  | Puncture wound without foreign body of right front wall of thorax with penetration into thoracic cavity                             | Diagnosis     | ICD-10-CM |
| S21.331A | Puncture wound without foreign body of right front wall of thorax with penetration into thoracic cavity, initial encounter          | Diagnosis     | ICD-10-CM |
| S21.331D | Puncture wound without foreign body of right front wall of thorax with penetration into thoracic cavity, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S21.331S | Puncture wound without foreign body of right front wall of thorax with penetration into thoracic cavity, sequela                    | Diagnosis     | ICD-10-CM |
| S21.332  | Puncture wound without foreign body of left front wall of thorax with penetration into thoracic cavity                              | Diagnosis     | ICD-10-CM |
| S21.332A | Puncture wound without foreign body of left front wall of thorax with penetration into thoracic cavity, initial encounter           | Diagnosis     | ICD-10-CM |
| S21.332D | Puncture wound without foreign body of left front wall of thorax with penetration into thoracic cavity, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S21.332S | Puncture wound without foreign body of left front wall of thorax with penetration into thoracic cavity, sequela                     | Diagnosis     | ICD-10-CM |
| S21.339  | Puncture wound without foreign body of unspecified front wall of thorax with penetration into thoracic cavity                       | Diagnosis     | ICD-10-CM |
| S21.339A | Puncture wound without foreign body of unspecified front wall of thorax with penetration into thoracic cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S21.339D | Puncture wound without foreign body of unspecified front wall of thorax with penetration into thoracic cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S21.339S | Puncture wound without foreign body of unspecified front wall of thorax with penetration into thoracic cavity, sequela              | Diagnosis     | ICD-10-CM |
| S21.34   | Puncture wound with foreign body of front wall of thorax with penetration into thoracic cavity                                      | Diagnosis     | ICD-10-CM |
| S21.341  | Puncture wound with foreign body of right front wall of thorax with penetration into thoracic cavity                                | Diagnosis     | ICD-10-CM |
| S21.341A | Puncture wound with foreign body of right front wall of thorax with penetration into thoracic cavity, initial encounter             | Diagnosis     | ICD-10-CM |
| S21.341D | Puncture wound with foreign body of right front wall of thorax with penetration into thoracic cavity, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S21.341S | Puncture wound with foreign body of right front wall of thorax with penetration into thoracic cavity, sequela                       | Diagnosis     | ICD-10-CM |
| S21.342  | Puncture wound with foreign body of left front wall of thorax with penetration into thoracic cavity                                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S21.342A | Puncture wound with foreign body of left front wall of thorax with penetration into thoracic cavity, initial encounter           | Diagnosis     | ICD-10-CM |
| S21.342D | Puncture wound with foreign body of left front wall of thorax with penetration into thoracic cavity, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S21.342S | Puncture wound with foreign body of left front wall of thorax with penetration into thoracic cavity, sequela                     | Diagnosis     | ICD-10-CM |
| S21.349  | Puncture wound with foreign body of unspecified front wall of thorax with penetration into thoracic cavity                       | Diagnosis     | ICD-10-CM |
| S21.349A | Puncture wound with foreign body of unspecified front wall of thorax with penetration into thoracic cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S21.349D | Puncture wound with foreign body of unspecified front wall of thorax with penetration into thoracic cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S21.349S | Puncture wound with foreign body of unspecified front wall of thorax with penetration into thoracic cavity, sequela              | Diagnosis     | ICD-10-CM |
| S21.35   | Open bite of front wall of thorax with penetration into thoracic cavity  | Diagnosis     | ICD-10-CM |
| S21.351  | Open bite of right front wall of thorax with penetration into thoracic cavity  | Diagnosis     | ICD-10-CM |
| S21.351A | Open bite of right front wall of thorax with penetration into thoracic cavity, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S21.351D | Open bite of right front wall of thorax with penetration into thoracic cavity, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S21.351S | Open bite of right front wall of thorax with penetration into thoracic cavity, sequela   | Diagnosis     | ICD-10-CM |
| S21.352  | Open bite of left front wall of thorax with penetration into thoracic cavity   | Diagnosis     | ICD-10-CM |
| S21.352A | Open bite of left front wall of thorax with penetration into thoracic cavity, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S21.352D | Open bite of left front wall of thorax with penetration into thoracic cavity, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S21.352S | Open bite of left front wall of thorax with penetration into thoracic cavity, sequela  | Diagnosis     | ICD-10-CM |
| S21.359  | Open bite of unspecified front wall of thorax with penetration into thoracic cavity  | Diagnosis     | ICD-10-CM |
| S21.359A | Open bite of unspecified front wall of thorax with penetration into thoracic cavity, initial encounter                           | Diagnosis     | ICD-10-CM |
| S21.359D | Open bite of unspecified front wall of thorax with penetration into thoracic cavity, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S21.359S | Open bite of unspecified front wall of thorax with penetration into thoracic cavity, sequela                                     | Diagnosis     | ICD-10-CM |
| S21.4    | Open wound of back wall of thorax with penetration into thoracic cavity  | Diagnosis     | ICD-10-CM |
| S21.40   | Unspecified open wound of back wall of thorax with penetration into thoracic cavity  | Diagnosis     | ICD-10-CM |
| S21.401  | Unspecified open wound of right back wall of thorax with penetration into thoracic cavity  | Diagnosis     | ICD-10-CM |
| S21.401A | Unspecified open wound of right back wall of thorax with penetration into thoracic cavity, initial encounter                     | Diagnosis     | ICD-10-CM |
| S21.401D | Unspecified open wound of right back wall of thorax with penetration into thoracic cavity, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S21.401S | Unspecified open wound of right back wall of thorax with penetration into thoracic cavity, sequela                               | Diagnosis     | ICD-10-CM |
| S21.402  | Unspecified open wound of left back wall of thorax with penetration into thoracic cavity   | Diagnosis     | ICD-10-CM |
| S21.402A | Unspecified open wound of left back wall of thorax with penetration into thoracic cavity, initial encounter                      | Diagnosis     | ICD-10-CM |
| S21.402D | Unspecified open wound of left back wall of thorax with penetration into thoracic cavity, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S21.402S | Unspecified open wound of left back wall of thorax with penetration into thoracic cavity, sequela                                | Diagnosis     | ICD-10-CM |
| S21.409  | Unspecified open wound of unspecified back wall of thorax with penetration into thoracic cavity                                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S21.409A | Unspecified open wound of unspecified back wall of thorax with penetration into thoracic cavity, initial encounter             | Diagnosis     | ICD-10-CM |
| S21.409D | Unspecified open wound of unspecified back wall of thorax with penetration into thoracic cavity, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S21.409S | Unspecified open wound of unspecified back wall of thorax with penetration into thoracic cavity, sequela                       | Diagnosis     | ICD-10-CM |
| S21.41   | Laceration without foreign body of back wall of thorax with penetration into thoracic cavity                                   | Diagnosis     | ICD-10-CM |
| S21.411  | Laceration without foreign body of right back wall of thorax with penetration into thoracic cavity                             | Diagnosis     | ICD-10-CM |
| S21.411A | Laceration without foreign body of right back wall of thorax with penetration into thoracic cavity, initial encounter          | Diagnosis     | ICD-10-CM |
| S21.411D | Laceration without foreign body of right back wall of thorax with penetration into thoracic cavity, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S21.411S | Laceration without foreign body of right back wall of thorax with penetration into thoracic cavity, sequela                    | Diagnosis     | ICD-10-CM |
| S21.412  | Laceration without foreign body of left back wall of thorax with penetration into thoracic cavity                              | Diagnosis     | ICD-10-CM |
| S21.412A | Laceration without foreign body of left back wall of thorax with penetration into thoracic cavity, initial encounter           | Diagnosis     | ICD-10-CM |
| S21.412D | Laceration without foreign body of left back wall of thorax with penetration into thoracic cavity, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S21.412S | Laceration without foreign body of left back wall of thorax with penetration into thoracic cavity, sequela                     | Diagnosis     | ICD-10-CM |
| S21.419  | Laceration without foreign body of unspecified back wall of thorax with penetration into thoracic cavity                       | Diagnosis     | ICD-10-CM |
| S21.419A | Laceration without foreign body of unspecified back wall of thorax with penetration into thoracic cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S21.419D | Laceration without foreign body of unspecified back wall of thorax with penetration into thoracic cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S21.419S | Laceration without foreign body of unspecified back wall of thorax with penetration into thoracic cavity, sequela              | Diagnosis     | ICD-10-CM |
| S21.42   | Laceration with foreign body of back wall of thorax with penetration into thoracic cavity                                      | Diagnosis     | ICD-10-CM |
| S21.421  | Laceration with foreign body of right back wall of thorax with penetration into thoracic cavity                                | Diagnosis     | ICD-10-CM |
| S21.421A | Laceration with foreign body of right back wall of thorax with penetration into thoracic cavity, initial encounter             | Diagnosis     | ICD-10-CM |
| S21.421D | Laceration with foreign body of right back wall of thorax with penetration into thoracic cavity, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S21.421S | Laceration with foreign body of right back wall of thorax with penetration into thoracic cavity, sequela                       | Diagnosis     | ICD-10-CM |
| S21.422  | Laceration with foreign body of left back wall of thorax with penetration into thoracic cavity                                 | Diagnosis     | ICD-10-CM |
| S21.422A | Laceration with foreign body of left back wall of thorax with penetration into thoracic cavity, initial encounter              | Diagnosis     | ICD-10-CM |
| S21.422D | Laceration with foreign body of left back wall of thorax with penetration into thoracic cavity, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S21.422S | Laceration with foreign body of left back wall of thorax with penetration into thoracic cavity, sequela                        | Diagnosis     | ICD-10-CM |
| S21.429  | Laceration with foreign body of unspecified back wall of thorax with penetration into thoracic cavity                          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S21.429A | Laceration with foreign body of unspecified back wall of thorax with penetration into thoracic cavity, initial encounter           | Diagnosis     | ICD-10-CM |
| S21.429D | Laceration with foreign body of unspecified back wall of thorax with penetration into thoracic cavity, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S21.429S | Laceration with foreign body of unspecified back wall of thorax with penetration into thoracic cavity, sequela                     | Diagnosis     | ICD-10-CM |
| S21.43   | Puncture wound without foreign body of back wall of thorax with penetration into thoracic cavity                                   | Diagnosis     | ICD-10-CM |
| S21.431  | Puncture wound without foreign body of right back wall of thorax with penetration into thoracic cavity                             | Diagnosis     | ICD-10-CM |
| S21.431A | Puncture wound without foreign body of right back wall of thorax with penetration into thoracic cavity, initial encounter          | Diagnosis     | ICD-10-CM |
| S21.431D | Puncture wound without foreign body of right back wall of thorax with penetration into thoracic cavity, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S21.431S | Puncture wound without foreign body of right back wall of thorax with penetration into thoracic cavity, sequela                    | Diagnosis     | ICD-10-CM |
| S21.432  | Puncture wound without foreign body of left back wall of thorax with penetration into thoracic cavity                              | Diagnosis     | ICD-10-CM |
| S21.432A | Puncture wound without foreign body of left back wall of thorax with penetration into thoracic cavity, initial encounter           | Diagnosis     | ICD-10-CM |
| S21.432D | Puncture wound without foreign body of left back wall of thorax with penetration into thoracic cavity, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S21.432S | Puncture wound without foreign body of left back wall of thorax with penetration into thoracic cavity, sequela                     | Diagnosis     | ICD-10-CM |
| S21.439  | Puncture wound without foreign body of unspecified back wall of thorax with penetration into thoracic cavity                       | Diagnosis     | ICD-10-CM |
| S21.439A | Puncture wound without foreign body of unspecified back wall of thorax with penetration into thoracic cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S21.439D | Puncture wound without foreign body of unspecified back wall of thorax with penetration into thoracic cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S21.439S | Puncture wound without foreign body of unspecified back wall of thorax with penetration into thoracic cavity, sequela              | Diagnosis     | ICD-10-CM |
| S21.44   | Puncture wound with foreign body of back wall of thorax with penetration into thoracic cavity                                      | Diagnosis     | ICD-10-CM |
| S21.441  | Puncture wound with foreign body of right back wall of thorax with penetration into thoracic cavity                                | Diagnosis     | ICD-10-CM |
| S21.441A | Puncture wound with foreign body of right back wall of thorax with penetration into thoracic cavity, initial encounter             | Diagnosis     | ICD-10-CM |
| S21.441D | Puncture wound with foreign body of right back wall of thorax with penetration into thoracic cavity, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S21.441S | Puncture wound with foreign body of right back wall of thorax with penetration into thoracic cavity, sequela                       | Diagnosis     | ICD-10-CM |
| S21.442  | Puncture wound with foreign body of left back wall of thorax with penetration into thoracic cavity                                 | Diagnosis     | ICD-10-CM |
| S21.442A | Puncture wound with foreign body of left back wall of thorax with penetration into thoracic cavity, initial encounter              | Diagnosis     | ICD-10-CM |
| S21.442D | Puncture wound with foreign body of left back wall of thorax with penetration into thoracic cavity, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S21.442S | Puncture wound with foreign body of left back wall of thorax with penetration into thoracic cavity, sequela                        | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S21.449  | Puncture wound with foreign body of unspecified back wall of thorax with penetration into thoracic cavity                       | Diagnosis     | ICD-10-CM |
| S21.449A | Puncture wound with foreign body of unspecified back wall of thorax with penetration into thoracic cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S21.449D | Puncture wound with foreign body of unspecified back wall of thorax with penetration into thoracic cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S21.449S | Puncture wound with foreign body of unspecified back wall of thorax with penetration into thoracic cavity, sequela              | Diagnosis     | ICD-10-CM |
| S21.45   | Open bite of back wall of thorax with penetration into thoracic cavity  | Diagnosis     | ICD-10-CM |
| S21.451  | Open bite of right back wall of thorax with penetration into thoracic cavity  | Diagnosis     | ICD-10-CM |
| S21.451A | Open bite of right back wall of thorax with penetration into thoracic cavity, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S21.451D | Open bite of right back wall of thorax with penetration into thoracic cavity, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S21.451S | Open bite of right back wall of thorax with penetration into thoracic cavity, sequela   | Diagnosis     | ICD-10-CM |
| S21.452  | Open bite of left back wall of thorax with penetration into thoracic cavity   | Diagnosis     | ICD-10-CM |
| S21.452A | Open bite of left back wall of thorax with penetration into thoracic cavity, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S21.452D | Open bite of left back wall of thorax with penetration into thoracic cavity, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S21.452S | Open bite of left back wall of thorax with penetration into thoracic cavity, sequela  | Diagnosis     | ICD-10-CM |
| S21.459  | Open bite of unspecified back wall of thorax with penetration into thoracic cavity  | Diagnosis     | ICD-10-CM |
| S21.459A | Open bite of unspecified back wall of thorax with penetration into thoracic cavity, initial encounter                           | Diagnosis     | ICD-10-CM |
| S21.459D | Open bite of unspecified back wall of thorax with penetration into thoracic cavity, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S21.459S | Open bite of unspecified back wall of thorax with penetration into thoracic cavity, sequela                                     | Diagnosis     | ICD-10-CM |
| S21.9    | Open wound of unspecified part of thorax  | Diagnosis     | ICD-10-CM |
| S21.90   | Unspecified open wound of unspecified part of thorax  | Diagnosis     | ICD-10-CM |
| S21.90XA | Unspecified open wound of unspecified part of thorax, initial encounter   | Diagnosis     | ICD-10-CM |
| S21.90XD | Unspecified open wound of unspecified part of thorax, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S21.90XS | Unspecified open wound of unspecified part of thorax, sequela   | Diagnosis     | ICD-10-CM |
| S21.91   | Laceration without foreign body of unspecified part of thorax   | Diagnosis     | ICD-10-CM |
| S21.91XA | Laceration without foreign body of unspecified part of thorax, initial encounter  | Diagnosis     | ICD-10-CM |
| S21.91XD | Laceration without foreign body of unspecified part of thorax, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S21.91XS | Laceration without foreign body of unspecified part of thorax, sequela  | Diagnosis     | ICD-10-CM |
| S21.92   | Laceration with foreign body of unspecified part of thorax  | Diagnosis     | ICD-10-CM |
| S21.92XA | Laceration with foreign body of unspecified part of thorax, initial encounter   | Diagnosis     | ICD-10-CM |
| S21.92XD | Laceration with foreign body of unspecified part of thorax, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S21.92XS | Laceration with foreign body of unspecified part of thorax, sequela   | Diagnosis     | ICD-10-CM |
| S21.93   | Puncture wound without foreign body of unspecified part of thorax   | Diagnosis     | ICD-10-CM |
| S21.93XA | Puncture wound without foreign body of unspecified part of thorax, initial encounter  | Diagnosis     | ICD-10-CM |
| S21.93XD | Puncture wound without foreign body of unspecified part of thorax, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S21.93XS | Puncture wound without foreign body of unspecified part of thorax, sequela  | Diagnosis     | ICD-10-CM |
| S21.94   | Puncture wound with foreign body of unspecified part of thorax  | Diagnosis     | ICD-10-CM |
| S21.94XA | Puncture wound with foreign body of unspecified part of thorax, initial encounter   | Diagnosis     | ICD-10-CM |
| S21.94XD | Puncture wound with foreign body of unspecified part of thorax, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S21.94XS | Puncture wound with foreign body of unspecified part of thorax, sequela   | Diagnosis     | ICD-10-CM |
| S21.95   | Open bite of unspecified part of thorax   | Diagnosis     | ICD-10-CM |
| S21.95XA | Open bite of unspecified part of thorax, initial encounter  | Diagnosis     | ICD-10-CM |
| S21.95XD | Open bite of unspecified part of thorax, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S21.95XS | Open bite of unspecified part of thorax, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S22      | Fracture of rib(s), sternum and thoracic spine  | Diagnosis     | ICD-10-CM |
| S22.0    | Fracture of thoracic vertebra   | Diagnosis     | ICD-10-CM |
| S22.00   | Fracture of unspecified thoracic vertebra   | Diagnosis     | ICD-10-CM |
| S22.000  | Wedge compression fracture of unspecified thoracic vertebra   | Diagnosis     | ICD-10-CM |
| S22.000A | Wedge compression fracture of unspecified thoracic vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S22.000B | Wedge compression fracture of unspecified thoracic vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S22.000D | Wedge compression fracture of unspecified thoracic vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S22.000G | Wedge compression fracture of unspecified thoracic vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S22.000K | Wedge compression fracture of unspecified thoracic vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S22.000S | Wedge compression fracture of unspecified thoracic vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S22.001  | Stable burst fracture of unspecified thoracic vertebra  | Diagnosis     | ICD-10-CM |
| S22.001A | Stable burst fracture of unspecified thoracic vertebra, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S22.001B | Stable burst fracture of unspecified thoracic vertebra, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S22.001D | Stable burst fracture of unspecified thoracic vertebra, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S22.001G | Stable burst fracture of unspecified thoracic vertebra, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S22.001K | Stable burst fracture of unspecified thoracic vertebra, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S22.001S | Stable burst fracture of unspecified thoracic vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S22.002  | Unstable burst fracture of unspecified thoracic vertebra  | Diagnosis     | ICD-10-CM |
| S22.002A | Unstable burst fracture of unspecified thoracic vertebra, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S22.002B | Unstable burst fracture of unspecified thoracic vertebra, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S22.002D | Unstable burst fracture of unspecified thoracic vertebra, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S22.002G | Unstable burst fracture of unspecified thoracic vertebra, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S22.002K | Unstable burst fracture of unspecified thoracic vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S22.002S | Unstable burst fracture of unspecified thoracic vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S22.008  | Other fracture of unspecified thoracic vertebra   | Diagnosis     | ICD-10-CM |
| S22.008A | Other fracture of unspecified thoracic vertebra, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S22.008B | Other fracture of unspecified thoracic vertebra, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S22.008D | Other fracture of unspecified thoracic vertebra, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S22.008G | Other fracture of unspecified thoracic vertebra, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S22.008K | Other fracture of unspecified thoracic vertebra, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S22.008S | Other fracture of unspecified thoracic vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S22.009  | Unspecified fracture of unspecified thoracic vertebra   | Diagnosis     | ICD-10-CM |
| S22.009A | Unspecified fracture of unspecified thoracic vertebra, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S22.009B | Unspecified fracture of unspecified thoracic vertebra, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S22.009D | Unspecified fracture of unspecified thoracic vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S22.009G | Unspecified fracture of unspecified thoracic vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S22.009K | Unspecified fracture of unspecified thoracic vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S22.009S | Unspecified fracture of unspecified thoracic vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S22.01   | Fracture of first thoracic vertebra   | Diagnosis     | ICD-10-CM |
| S22.010  | Wedge compression fracture of first thoracic vertebra   | Diagnosis     | ICD-10-CM |
| S22.010A | Wedge compression fracture of first thoracic vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S22.010B | Wedge compression fracture of first thoracic vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S22.010D | Wedge compression fracture of first thoracic vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S22.010G | Wedge compression fracture of first thoracic vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S22.010K | Wedge compression fracture of first thoracic vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S22.010S | Wedge compression fracture of first thoracic vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S22.011  | Stable burst fracture of first thoracic vertebra  | Diagnosis     | ICD-10-CM |
| S22.011A | Stable burst fracture of first thoracic vertebra, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S22.011B | Stable burst fracture of first thoracic vertebra, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S22.011D | Stable burst fracture of first thoracic vertebra, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S22.011G | Stable burst fracture of first thoracic vertebra, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S22.011K | Stable burst fracture of first thoracic vertebra, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S22.011S | Stable burst fracture of first thoracic vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S22.012  | Unstable burst fracture of first thoracic vertebra  | Diagnosis     | ICD-10-CM |
| S22.012A | Unstable burst fracture of first thoracic vertebra, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S22.012B | Unstable burst fracture of first thoracic vertebra, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S22.012D | Unstable burst fracture of first thoracic vertebra, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S22.012G | Unstable burst fracture of first thoracic vertebra, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S22.012K | Unstable burst fracture of first thoracic vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S22.012S | Unstable burst fracture of first thoracic vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S22.018  | Other fracture of first thoracic vertebra   | Diagnosis     | ICD-10-CM |
| S22.018A | Other fracture of first thoracic vertebra, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S22.018B | Other fracture of first thoracic vertebra, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S22.018D | Other fracture of first thoracic vertebra, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S22.018G | Other fracture of first thoracic vertebra, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S22.018K | Other fracture of first thoracic vertebra, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S22.018S | Other fracture of first thoracic vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S22.019  | Unspecified fracture of first thoracic vertebra   | Diagnosis     | ICD-10-CM |
| S22.019A | Unspecified fracture of first thoracic vertebra, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S22.019B | Unspecified fracture of first thoracic vertebra, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S22.019D | Unspecified fracture of first thoracic vertebra, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S22.019G | Unspecified fracture of first thoracic vertebra, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S22.019K | Unspecified fracture of first thoracic vertebra, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S22.019S | Unspecified fracture of first thoracic vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S22.02   | Fracture of second thoracic vertebra   | Diagnosis     | ICD-10-CM |
| S22.020  | Wedge compression fracture of second thoracic vertebra   | Diagnosis     | ICD-10-CM |
| S22.020A | Wedge compression fracture of second thoracic vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S22.020B | Wedge compression fracture of second thoracic vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S22.020D | Wedge compression fracture of second thoracic vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S22.020G | Wedge compression fracture of second thoracic vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S22.020K | Wedge compression fracture of second thoracic vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S22.020S | Wedge compression fracture of second thoracic vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S22.021  | Stable burst fracture of second thoracic vertebra  | Diagnosis     | ICD-10-CM |
| S22.021A | Stable burst fracture of second thoracic vertebra, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S22.021B | Stable burst fracture of second thoracic vertebra, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S22.021D | Stable burst fracture of second thoracic vertebra, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S22.021G | Stable burst fracture of second thoracic vertebra, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S22.021K | Stable burst fracture of second thoracic vertebra, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S22.021S | Stable burst fracture of second thoracic vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S22.022  | Unstable burst fracture of second thoracic vertebra  | Diagnosis     | ICD-10-CM |
| S22.022A | Unstable burst fracture of second thoracic vertebra, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S22.022B | Unstable burst fracture of second thoracic vertebra, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S22.022D | Unstable burst fracture of second thoracic vertebra, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S22.022G | Unstable burst fracture of second thoracic vertebra, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S22.022K | Unstable burst fracture of second thoracic vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S22.022S | Unstable burst fracture of second thoracic vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S22.028  | Other fracture of second thoracic vertebra   | Diagnosis     | ICD-10-CM |
| S22.028A | Other fracture of second thoracic vertebra, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S22.028B | Other fracture of second thoracic vertebra, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S22.028D | Other fracture of second thoracic vertebra, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S22.028G | Other fracture of second thoracic vertebra, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S22.028K | Other fracture of second thoracic vertebra, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S22.028S | Other fracture of second thoracic vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S22.029  | Unspecified fracture of second thoracic vertebra   | Diagnosis     | ICD-10-CM |
| S22.029A | Unspecified fracture of second thoracic vertebra, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S22.029B | Unspecified fracture of second thoracic vertebra, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S22.029D | Unspecified fracture of second thoracic vertebra, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S22.029G | Unspecified fracture of second thoracic vertebra, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S22.029K | Unspecified fracture of second thoracic vertebra, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S22.029S | Unspecified fracture of second thoracic vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S22.03   | Fracture of third thoracic vertebra   | Diagnosis     | ICD-10-CM |
| S22.030  | Wedge compression fracture of third thoracic vertebra   | Diagnosis     | ICD-10-CM |
| S22.030A | Wedge compression fracture of third thoracic vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S22.030B | Wedge compression fracture of third thoracic vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S22.030D | Wedge compression fracture of third thoracic vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S22.030G | Wedge compression fracture of third thoracic vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S22.030K | Wedge compression fracture of third thoracic vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S22.030S | Wedge compression fracture of third thoracic vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S22.031  | Stable burst fracture of third thoracic vertebra  | Diagnosis     | ICD-10-CM |
| S22.031A | Stable burst fracture of third thoracic vertebra, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S22.031B | Stable burst fracture of third thoracic vertebra, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S22.031D | Stable burst fracture of third thoracic vertebra, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S22.031G | Stable burst fracture of third thoracic vertebra, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S22.031K | Stable burst fracture of third thoracic vertebra, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S22.031S | Stable burst fracture of third thoracic vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S22.032  | Unstable burst fracture of third thoracic vertebra  | Diagnosis     | ICD-10-CM |
| S22.032A | Unstable burst fracture of third thoracic vertebra, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S22.032B | Unstable burst fracture of third thoracic vertebra, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S22.032D | Unstable burst fracture of third thoracic vertebra, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S22.032G | Unstable burst fracture of third thoracic vertebra, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S22.032K | Unstable burst fracture of third thoracic vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S22.032S | Unstable burst fracture of third thoracic vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S22.038  | Other fracture of third thoracic vertebra   | Diagnosis     | ICD-10-CM |
| S22.038A | Other fracture of third thoracic vertebra, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S22.038B | Other fracture of third thoracic vertebra, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S22.038D | Other fracture of third thoracic vertebra, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S22.038G | Other fracture of third thoracic vertebra, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S22.038K | Other fracture of third thoracic vertebra, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S22.038S | Other fracture of third thoracic vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S22.039  | Unspecified fracture of third thoracic vertebra   | Diagnosis     | ICD-10-CM |
| S22.039A | Unspecified fracture of third thoracic vertebra, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S22.039B | Unspecified fracture of third thoracic vertebra, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S22.039D | Unspecified fracture of third thoracic vertebra, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S22.039G | Unspecified fracture of third thoracic vertebra, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S22.039K | Unspecified fracture of third thoracic vertebra, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S22.039S | Unspecified fracture of third thoracic vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S22.04   | Fracture of fourth thoracic vertebra   | Diagnosis     | ICD-10-CM |
| S22.040  | Wedge compression fracture of fourth thoracic vertebra   | Diagnosis     | ICD-10-CM |
| S22.040A | Wedge compression fracture of fourth thoracic vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S22.040B | Wedge compression fracture of fourth thoracic vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S22.040D | Wedge compression fracture of fourth thoracic vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S22.040G | Wedge compression fracture of fourth thoracic vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S22.040K | Wedge compression fracture of fourth thoracic vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S22.040S | Wedge compression fracture of fourth thoracic vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S22.041  | Stable burst fracture of fourth thoracic vertebra  | Diagnosis     | ICD-10-CM |
| S22.041A | Stable burst fracture of fourth thoracic vertebra, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S22.041B | Stable burst fracture of fourth thoracic vertebra, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S22.041D | Stable burst fracture of fourth thoracic vertebra, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S22.041G | Stable burst fracture of fourth thoracic vertebra, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S22.041K | Stable burst fracture of fourth thoracic vertebra, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S22.041S | Stable burst fracture of fourth thoracic vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S22.042  | Unstable burst fracture of fourth thoracic vertebra  | Diagnosis     | ICD-10-CM |
| S22.042A | Unstable burst fracture of fourth thoracic vertebra, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S22.042B | Unstable burst fracture of fourth thoracic vertebra, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S22.042D | Unstable burst fracture of fourth thoracic vertebra, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S22.042G | Unstable burst fracture of fourth thoracic vertebra, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S22.042K | Unstable burst fracture of fourth thoracic vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S22.042S | Unstable burst fracture of fourth thoracic vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S22.048  | Other fracture of fourth thoracic vertebra   | Diagnosis     | ICD-10-CM |
| S22.048A | Other fracture of fourth thoracic vertebra, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S22.048B | Other fracture of fourth thoracic vertebra, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S22.048D | Other fracture of fourth thoracic vertebra, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S22.048G | Other fracture of fourth thoracic vertebra, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S22.048K | Other fracture of fourth thoracic vertebra, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S22.048S | Other fracture of fourth thoracic vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S22.049  | Unspecified fracture of fourth thoracic vertebra   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S22.049A | Unspecified fracture of fourth thoracic vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S22.049B | Unspecified fracture of fourth thoracic vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S22.049D | Unspecified fracture of fourth thoracic vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S22.049G | Unspecified fracture of fourth thoracic vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S22.049K | Unspecified fracture of fourth thoracic vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S22.049S | Unspecified fracture of fourth thoracic vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S22.05   | Fracture of T5-T6 vertebra   | Diagnosis     | ICD-10-CM |
| S22.050  | Wedge compression fracture of T5-T6 vertebra   | Diagnosis     | ICD-10-CM |
| S22.050A | Wedge compression fracture of T5-T6 vertebra, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S22.050B | Wedge compression fracture of T5-T6 vertebra, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S22.050D | Wedge compression fracture of T5-T6 vertebra, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S22.050G | Wedge compression fracture of T5-T6 vertebra, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S22.050K | Wedge compression fracture of T5-T6 vertebra, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S22.050S | Wedge compression fracture of T5-T6 vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S22.051  | Stable burst fracture of T5-T6 vertebra  | Diagnosis     | ICD-10-CM |
| S22.051A | Stable burst fracture of T5-T6 vertebra, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S22.051B | Stable burst fracture of T5-T6 vertebra, initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |
| S22.051D | Stable burst fracture of T5-T6 vertebra, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S22.051G | Stable burst fracture of T5-T6 vertebra, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S22.051K | Stable burst fracture of T5-T6 vertebra, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S22.051S | Stable burst fracture of T5-T6 vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S22.052  | Unstable burst fracture of T5-T6 vertebra  | Diagnosis     | ICD-10-CM |
| S22.052A | Unstable burst fracture of T5-T6 vertebra, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S22.052B | Unstable burst fracture of T5-T6 vertebra, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S22.052D | Unstable burst fracture of T5-T6 vertebra, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S22.052G | Unstable burst fracture of T5-T6 vertebra, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S22.052K | Unstable burst fracture of T5-T6 vertebra, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S22.052S | Unstable burst fracture of T5-T6 vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S22.058  | Other fracture of T5-T6 vertebra   | Diagnosis     | ICD-10-CM |
| S22.058A | Other fracture of T5-T6 vertebra, initial encounter for closed fracture                                  | Diagnosis     | ICD-10-CM |
| S22.058B | Other fracture of T5-T6 vertebra, initial encounter for open fracture                                    | Diagnosis     | ICD-10-CM |
| S22.058D | Other fracture of T5-T6 vertebra, subsequent encounter for fracture with routine healing                 | Diagnosis     | ICD-10-CM |
| S22.058G | Other fracture of T5-T6 vertebra, subsequent encounter for fracture with delayed healing                 | Diagnosis     | ICD-10-CM |
| S22.058K | Other fracture of T5-T6 vertebra, subsequent encounter for fracture with nonunion                        | Diagnosis     | ICD-10-CM |
| S22.058S | Other fracture of T5-T6 vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S22.059  | Unspecified fracture of T5-T6 vertebra   | Diagnosis     | ICD-10-CM |
| S22.059A | Unspecified fracture of T5-T6 vertebra, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S22.059B | Unspecified fracture of T5-T6 vertebra, initial encounter for open fracture                              | Diagnosis     | ICD-10-CM |
| S22.059D | Unspecified fracture of T5-T6 vertebra, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S22.059G | Unspecified fracture of T5-T6 vertebra, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S22.059K | Unspecified fracture of T5-T6 vertebra, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S22.059S | Unspecified fracture of T5-T6 vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S22.06   | Fracture of T7-T8 vertebra   | Diagnosis     | ICD-10-CM |
| S22.060  | Wedge compression fracture of T7-T8 vertebra   | Diagnosis     | ICD-10-CM |
| S22.060A | Wedge compression fracture of T7-T8 vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S22.060B | Wedge compression fracture of T7-T8 vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S22.060D | Wedge compression fracture of T7-T8 vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S22.060G | Wedge compression fracture of T7-T8 vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S22.060K | Wedge compression fracture of T7-T8 vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S22.060S | Wedge compression fracture of T7-T8 vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S22.061  | Stable burst fracture of T7-T8 vertebra  | Diagnosis     | ICD-10-CM |
| S22.061A | Stable burst fracture of T7-T8 vertebra, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S22.061B | Stable burst fracture of T7-T8 vertebra, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S22.061D | Stable burst fracture of T7-T8 vertebra, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S22.061G | Stable burst fracture of T7-T8 vertebra, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S22.061K | Stable burst fracture of T7-T8 vertebra, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S22.061S | Stable burst fracture of T7-T8 vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S22.062  | Unstable burst fracture of T7-T8 vertebra  | Diagnosis     | ICD-10-CM |
| S22.062A | Unstable burst fracture of T7-T8 vertebra, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S22.062B | Unstable burst fracture of T7-T8 vertebra, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S22.062D | Unstable burst fracture of T7-T8 vertebra, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S22.062G | Unstable burst fracture of T7-T8 vertebra, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S22.062K | Unstable burst fracture of T7-T8 vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S22.062S | Unstable burst fracture of T7-T8 vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S22.068  | Other fracture of T7-T8 thoracic vertebra  | Diagnosis     | ICD-10-CM |
| S22.068A | Other fracture of T7-T8 thoracic vertebra, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S22.068B | Other fracture of T7-T8 thoracic vertebra, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S22.068D | Other fracture of T7-T8 thoracic vertebra, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S22.068G | Other fracture of T7-T8 thoracic vertebra, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S22.068K | Other fracture of T7-T8 thoracic vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S22.068S | Other fracture of T7-T8 thoracic vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S22.069  | Unspecified fracture of T7-T8 vertebra   | Diagnosis     | ICD-10-CM |
| S22.069A | Unspecified fracture of T7-T8 vertebra, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S22.069B | Unspecified fracture of T7-T8 vertebra, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S22.069D | Unspecified fracture of T7-T8 vertebra, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S22.069G | Unspecified fracture of T7-T8 vertebra, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S22.069K | Unspecified fracture of T7-T8 vertebra, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S22.069S | Unspecified fracture of T7-T8 vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S22.07   | Fracture of T9-T10 vertebra   | Diagnosis     | ICD-10-CM |
| S22.070  | Wedge compression fracture of T9-T10 vertebra   | Diagnosis     | ICD-10-CM |
| S22.070A | Wedge compression fracture of T9-T10 vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S22.070B | Wedge compression fracture of T9-T10 vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S22.070D | Wedge compression fracture of T9-T10 vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S22.070G | Wedge compression fracture of T9-T10 vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S22.070K | Wedge compression fracture of T9-T10 vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S22.070S | Wedge compression fracture of T9-T10 vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S22.071  | Stable burst fracture of T9-T10 vertebra  | Diagnosis     | ICD-10-CM |
| S22.071A | Stable burst fracture of T9-T10 vertebra, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S22.071B | Stable burst fracture of T9-T10 vertebra, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S22.071D | Stable burst fracture of T9-T10 vertebra, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S22.071G | Stable burst fracture of T9-T10 vertebra, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S22.071K | Stable burst fracture of T9-T10 vertebra, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S22.071S | Stable burst fracture of T9-T10 vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S22.072  | Unstable burst fracture of T9-T10 vertebra  | Diagnosis     | ICD-10-CM |
| S22.072A | Unstable burst fracture of T9-T10 vertebra, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S22.072B | Unstable burst fracture of T9-T10 vertebra, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S22.072D | Unstable burst fracture of T9-T10 vertebra, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S22.072G | Unstable burst fracture of T9-T10 vertebra, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S22.072K | Unstable burst fracture of T9-T10 vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S22.072S | Unstable burst fracture of T9-T10 vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S22.078  | Other fracture of T9-T10 vertebra   | Diagnosis     | ICD-10-CM |
| S22.078A | Other fracture of T9-T10 vertebra, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S22.078B | Other fracture of T9-T10 vertebra, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S22.078D | Other fracture of T9-T10 vertebra, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S22.078G | Other fracture of T9-T10 vertebra, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S22.078K | Other fracture of T9-T10 vertebra, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S22.078S | Other fracture of T9-T10 vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S22.079  | Unspecified fracture of T9-T10 vertebra   | Diagnosis     | ICD-10-CM |
| S22.079A | Unspecified fracture of T9-T10 vertebra, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S22.079B | Unspecified fracture of T9-T10 vertebra, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S22.079D | Unspecified fracture of T9-T10 vertebra, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S22.079G | Unspecified fracture of T9-T10 vertebra, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S22.079K | Unspecified fracture of T9-T10 vertebra, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S22.079S | Unspecified fracture of T9-T10 vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S22.08   | Fracture of T11-T12 vertebra  | Diagnosis     | ICD-10-CM |
| S22.080  | Wedge compression fracture of T11-T12 vertebra  | Diagnosis     | ICD-10-CM |
| S22.080A | Wedge compression fracture of T11-T12 vertebra, initial encounter for closed fracture                 | Diagnosis     | ICD-10-CM |
| S22.080B | Wedge compression fracture of T11-T12 vertebra, initial encounter for open fracture                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S22.080D | Wedge compression fracture of T11-T12 vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S22.080G | Wedge compression fracture of T11-T12 vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S22.080K | Wedge compression fracture of T11-T12 vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S22.080S | Wedge compression fracture of T11-T12 vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S22.081  | Stable burst fracture of T11-T12 vertebra  | Diagnosis     | ICD-10-CM |
| S22.081A | Stable burst fracture of T11-T12 vertebra, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S22.081B | Stable burst fracture of T11-T12 vertebra, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S22.081D | Stable burst fracture of T11-T12 vertebra, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S22.081G | Stable burst fracture of T11-T12 vertebra, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S22.081K | Stable burst fracture of T11-T12 vertebra, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S22.081S | Stable burst fracture of T11-T12 vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S22.082  | Unstable burst fracture of T11-T12 vertebra  | Diagnosis     | ICD-10-CM |
| S22.082A | Unstable burst fracture of T11-T12 vertebra, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S22.082B | Unstable burst fracture of T11-T12 vertebra, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S22.082D | Unstable burst fracture of T11-T12 vertebra, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S22.082G | Unstable burst fracture of T11-T12 vertebra, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S22.082K | Unstable burst fracture of T11-T12 vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S22.082S | Unstable burst fracture of T11-T12 vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S22.088  | Other fracture of T11-T12 vertebra   | Diagnosis     | ICD-10-CM |
| S22.088A | Other fracture of T11-T12 vertebra, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S22.088B | Other fracture of T11-T12 vertebra, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S22.088D | Other fracture of T11-T12 vertebra, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S22.088G | Other fracture of T11-T12 vertebra, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S22.088K | Other fracture of T11-T12 vertebra, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S22.088S | Other fracture of T11-T12 vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S22.089  | Unspecified fracture of T11-T12 vertebra   | Diagnosis     | ICD-10-CM |
| S22.089A | Unspecified fracture of T11-T12 vertebra, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S22.089B | Unspecified fracture of T11-T12 vertebra, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S22.089D | Unspecified fracture of T11-T12 vertebra, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S22.089G | Unspecified fracture of T11-T12 vertebra, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S22.089K | Unspecified fracture of T11-T12 vertebra, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S22.089S | Unspecified fracture of T11-T12 vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S22.2    | Fracture of sternum  | Diagnosis     | ICD-10-CM |
| S22.20   | Unspecified fracture of sternum  | Diagnosis     | ICD-10-CM |
| S22.20XA | Unspecified fracture of sternum, initial encounter for closed fracture                                 | Diagnosis     | ICD-10-CM |
| S22.20XB | Unspecified fracture of sternum, initial encounter for open fracture                                   | Diagnosis     | ICD-10-CM |
| S22.20XD | Unspecified fracture of sternum, subsequent encounter for fracture with routine healing                | Diagnosis     | ICD-10-CM |
| S22.20XG | Unspecified fracture of sternum, subsequent encounter for fracture with delayed healing                | Diagnosis     | ICD-10-CM |
| S22.20XK | Unspecified fracture of sternum, subsequent encounter for fracture with nonunion                       | Diagnosis     | ICD-10-CM |
| S22.20XS | Unspecified fracture of sternum, sequela   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S22.21   | Fracture of manubrium   | Diagnosis     | ICD-10-CM |
| S22.21XA | Fracture of manubrium, initial encounter for closed fracture                                  | Diagnosis     | ICD-10-CM |
| S22.21XB | Fracture of manubrium, initial encounter for open fracture                                    | Diagnosis     | ICD-10-CM |
| S22.21XD | Fracture of manubrium, subsequent encounter for fracture with routine healing                 | Diagnosis     | ICD-10-CM |
| S22.21XG | Fracture of manubrium, subsequent encounter for fracture with delayed healing                 | Diagnosis     | ICD-10-CM |
| S22.21XK | Fracture of manubrium, subsequent encounter for fracture with nonunion                        | Diagnosis     | ICD-10-CM |
| S22.21XS | Fracture of manubrium, sequela  | Diagnosis     | ICD-10-CM |
| S22.22   | Fracture of body of sternum   | Diagnosis     | ICD-10-CM |
| S22.22XA | Fracture of body of sternum, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S22.22XB | Fracture of body of sternum, initial encounter for open fracture                              | Diagnosis     | ICD-10-CM |
| S22.22XD | Fracture of body of sternum, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S22.22XG | Fracture of body of sternum, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S22.22XK | Fracture of body of sternum, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S22.22XS | Fracture of body of sternum, sequela  | Diagnosis     | ICD-10-CM |
| S22.23   | Sternal manubrial dissociation  | Diagnosis     | ICD-10-CM |
| S22.23XA | Sternal manubrial dissociation, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S22.23XB | Sternal manubrial dissociation, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S22.23XD | Sternal manubrial dissociation, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S22.23XG | Sternal manubrial dissociation, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S22.23XK | Sternal manubrial dissociation, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S22.23XS | Sternal manubrial dissociation, sequela   | Diagnosis     | ICD-10-CM |
| S22.24   | Fracture of xiphoid process   | Diagnosis     | ICD-10-CM |
| S22.24XA | Fracture of xiphoid process, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S22.24XB | Fracture of xiphoid process, initial encounter for open fracture                              | Diagnosis     | ICD-10-CM |
| S22.24XD | Fracture of xiphoid process, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S22.24XG | Fracture of xiphoid process, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S22.24XK | Fracture of xiphoid process, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S22.24XS | Fracture of xiphoid process, sequela  | Diagnosis     | ICD-10-CM |
| S22.3    | Fracture of one rib   | Diagnosis     | ICD-10-CM |
| S22.31   | Fracture of one rib, right side   | Diagnosis     | ICD-10-CM |
| S22.31XA | Fracture of one rib, right side, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S22.31XB | Fracture of one rib, right side, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S22.31XD | Fracture of one rib, right side, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S22.31XG | Fracture of one rib, right side, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S22.31XK | Fracture of one rib, right side, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S22.31XS | Fracture of one rib, right side, sequela  | Diagnosis     | ICD-10-CM |
| S22.32   | Fracture of one rib, left side  | Diagnosis     | ICD-10-CM |
| S22.32XA | Fracture of one rib, left side, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S22.32XB | Fracture of one rib, left side, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S22.32XD | Fracture of one rib, left side, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S22.32XG | Fracture of one rib, left side, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S22.32XK | Fracture of one rib, left side, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S22.32XS | Fracture of one rib, left side, sequela   | Diagnosis     | ICD-10-CM |
| S22.39   | Fracture of one rib, unspecified side   | Diagnosis     | ICD-10-CM |
| S22.39XA | Fracture of one rib, unspecified side, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S22.39XB | Fracture of one rib, unspecified side, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S22.39XD | Fracture of one rib, unspecified side, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S22.39XG | Fracture of one rib, unspecified side, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S22.39XK | Fracture of one rib, unspecified side, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S22.39XS | Fracture of one rib, unspecified side, sequela  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S22.4    | Multiple fractures of ribs   | Diagnosis     | ICD-10-CM |
| S22.41   | Multiple fractures of ribs, right side   | Diagnosis     | ICD-10-CM |
| S22.41XA | Multiple fractures of ribs, right side, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S22.41XB | Multiple fractures of ribs, right side, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S22.41XD | Multiple fractures of ribs, right side, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S22.41XG | Multiple fractures of ribs, right side, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S22.41XX | Multiple fractures of ribs, right side, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S22.41XS | Multiple fractures of ribs, right side, sequela  | Diagnosis     | ICD-10-CM |
| S22.42   | Multiple fractures of ribs, left side  | Diagnosis     | ICD-10-CM |
| S22.42XA | Multiple fractures of ribs, left side, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S22.42XB | Multiple fractures of ribs, left side, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S22.42XD | Multiple fractures of ribs, left side, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S22.42XG | Multiple fractures of ribs, left side, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S22.42XX | Multiple fractures of ribs, left side, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S22.42XS | Multiple fractures of ribs, left side, sequela   | Diagnosis     | ICD-10-CM |
| S22.43   | Multiple fractures of ribs, bilateral  | Diagnosis     | ICD-10-CM |
| S22.43XA | Multiple fractures of ribs, bilateral, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S22.43XB | Multiple fractures of ribs, bilateral, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S22.43XD | Multiple fractures of ribs, bilateral, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S22.43XG | Multiple fractures of ribs, bilateral, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S22.43XX | Multiple fractures of ribs, bilateral, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S22.43XS | Multiple fractures of ribs, bilateral, sequela   | Diagnosis     | ICD-10-CM |
| S22.49   | Multiple fractures of ribs, unspecified side   | Diagnosis     | ICD-10-CM |
| S22.49XA | Multiple fractures of ribs, unspecified side, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S22.49XB | Multiple fractures of ribs, unspecified side, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S22.49XD | Multiple fractures of ribs, unspecified side, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S22.49XG | Multiple fractures of ribs, unspecified side, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S22.49XX | Multiple fractures of ribs, unspecified side, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S22.49XS | Multiple fractures of ribs, unspecified side, sequela  | Diagnosis     | ICD-10-CM |
| S22.5    | Flail chest  | Diagnosis     | ICD-10-CM |
| S22.5XXA | Flail chest, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S22.5XXB | Flail chest, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S22.5XXD | Flail chest, subsequent encounter for fracture with routine healing                                  | Diagnosis     | ICD-10-CM |
| S22.5XXG | Flail chest, subsequent encounter for fracture with delayed healing                                  | Diagnosis     | ICD-10-CM |
| S22.5XXK | Flail chest, subsequent encounter for fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S22.5XXS | Flail chest, sequela   | Diagnosis     | ICD-10-CM |
| S22.9    | Fracture of bony thorax, part unspecified  | Diagnosis     | ICD-10-CM |
| S22.9XXA | Fracture of bony thorax, part unspecified, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S22.9XXB | Fracture of bony thorax, part unspecified, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S22.9XXD | Fracture of bony thorax, part unspecified, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S22.9XXG | Fracture of bony thorax, part unspecified, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S22.9XXK | Fracture of bony thorax, part unspecified, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S22.9XXS | Fracture of bony thorax, part unspecified, sequela   | Diagnosis     | ICD-10-CM |
| S23      | Dislocation and sprain of joints and ligaments of thorax   | Diagnosis     | ICD-10-CM |
| S23.0    | Traumatic rupture of thoracic intervertebral disc  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S23.0XXA | Traumatic rupture of thoracic intervertebral disc, initial encounter    | Diagnosis     | ICD-10-CM |
| S23.0XXD | Traumatic rupture of thoracic intervertebral disc, subsequent encounter | Diagnosis     | ICD-10-CM |
| S23.0XXS | Traumatic rupture of thoracic intervertebral disc, sequela              | Diagnosis     | ICD-10-CM |
| S23.1    | Subluxation and dislocation of thoracic vertebra                        | Diagnosis     | ICD-10-CM |
| S23.10   | Subluxation and dislocation of unspecified thoracic vertebra            | Diagnosis     | ICD-10-CM |
| S23.100  | Subluxation of unspecified thoracic vertebra                            | Diagnosis     | ICD-10-CM |
| S23.100A | Subluxation of unspecified thoracic vertebra, initial encounter         | Diagnosis     | ICD-10-CM |
| S23.100D | Subluxation of unspecified thoracic vertebra, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S23.100S | Subluxation of unspecified thoracic vertebra, sequela                   | Diagnosis     | ICD-10-CM |
| S23.101  | Dislocation of unspecified thoracic vertebra                            | Diagnosis     | ICD-10-CM |
| S23.101A | Dislocation of unspecified thoracic vertebra, initial encounter         | Diagnosis     | ICD-10-CM |
| S23.101D | Dislocation of unspecified thoracic vertebra, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S23.101S | Dislocation of unspecified thoracic vertebra, sequela                   | Diagnosis     | ICD-10-CM |
| S23.11   | Subluxation and dislocation of T1/T2 thoracic vertebra                  | Diagnosis     | ICD-10-CM |
| S23.110  | Subluxation of T1/T2 thoracic vertebra                                  | Diagnosis     | ICD-10-CM |
| S23.110A | Subluxation of T1/T2 thoracic vertebra, initial encounter               | Diagnosis     | ICD-10-CM |
| S23.110D | Subluxation of T1/T2 thoracic vertebra, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S23.110S | Subluxation of T1/T2 thoracic vertebra, sequela                         | Diagnosis     | ICD-10-CM |
| S23.111  | Dislocation of T1/T2 thoracic vertebra                                  | Diagnosis     | ICD-10-CM |
| S23.111A | Dislocation of T1/T2 thoracic vertebra, initial encounter               | Diagnosis     | ICD-10-CM |
| S23.111D | Dislocation of T1/T2 thoracic vertebra, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S23.111S | Dislocation of T1/T2 thoracic vertebra, sequela                         | Diagnosis     | ICD-10-CM |
| S23.12   | Subluxation and dislocation of T2/T3-T3/T4 thoracic vertebra            | Diagnosis     | ICD-10-CM |
| S23.120  | Subluxation of T2/T3 thoracic vertebra                                  | Diagnosis     | ICD-10-CM |
| S23.120A | Subluxation of T2/T3 thoracic vertebra, initial encounter               | Diagnosis     | ICD-10-CM |
| S23.120D | Subluxation of T2/T3 thoracic vertebra, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S23.120S | Subluxation of T2/T3 thoracic vertebra, sequela                         | Diagnosis     | ICD-10-CM |
| S23.121  | Dislocation of T2/T3 thoracic vertebra                                  | Diagnosis     | ICD-10-CM |
| S23.121A | Dislocation of T2/T3 thoracic vertebra, initial encounter               | Diagnosis     | ICD-10-CM |
| S23.121D | Dislocation of T2/T3 thoracic vertebra, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S23.121S | Dislocation of T2/T3 thoracic vertebra, sequela                         | Diagnosis     | ICD-10-CM |
| S23.122  | Subluxation of T3/T4 thoracic vertebra                                  | Diagnosis     | ICD-10-CM |
| S23.122A | Subluxation of T3/T4 thoracic vertebra, initial encounter               | Diagnosis     | ICD-10-CM |
| S23.122D | Subluxation of T3/T4 thoracic vertebra, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S23.122S | Subluxation of T3/T4 thoracic vertebra, sequela                         | Diagnosis     | ICD-10-CM |
| S23.123  | Dislocation of T3/T4 thoracic vertebra                                  | Diagnosis     | ICD-10-CM |
| S23.123A | Dislocation of T3/T4 thoracic vertebra, initial encounter               | Diagnosis     | ICD-10-CM |
| S23.123D | Dislocation of T3/T4 thoracic vertebra, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S23.123S | Dislocation of T3/T4 thoracic vertebra, sequela                         | Diagnosis     | ICD-10-CM |
| S23.13   | Subluxation and dislocation of T4/T5-T5/T6 thoracic vertebra            | Diagnosis     | ICD-10-CM |
| S23.130  | Subluxation of T4/T5 thoracic vertebra                                  | Diagnosis     | ICD-10-CM |
| S23.130A | Subluxation of T4/T5 thoracic vertebra, initial encounter               | Diagnosis     | ICD-10-CM |
| S23.130D | Subluxation of T4/T5 thoracic vertebra, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S23.130S | Subluxation of T4/T5 thoracic vertebra, sequela                         | Diagnosis     | ICD-10-CM |
| S23.131  | Dislocation of T4/T5 thoracic vertebra                                  | Diagnosis     | ICD-10-CM |
| S23.131A | Dislocation of T4/T5 thoracic vertebra, initial encounter               | Diagnosis     | ICD-10-CM |
| S23.131D | Dislocation of T4/T5 thoracic vertebra, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S23.131S | Dislocation of T4/T5 thoracic vertebra, sequela                         | Diagnosis     | ICD-10-CM |
| S23.132  | Subluxation of T5/T6 thoracic vertebra                                  | Diagnosis     | ICD-10-CM |
| S23.132A | Subluxation of T5/T6 thoracic vertebra, initial encounter               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S23.132D | Subluxation of T5/T6 thoracic vertebra, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S23.132S | Subluxation of T5/T6 thoracic vertebra, sequela                  | Diagnosis     | ICD-10-CM |
| S23.133  | Dislocation of T5/T6 thoracic vertebra                           | Diagnosis     | ICD-10-CM |
| S23.133A | Dislocation of T5/T6 thoracic vertebra, initial encounter        | Diagnosis     | ICD-10-CM |
| S23.133D | Dislocation of T5/T6 thoracic vertebra, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S23.133S | Dislocation of T5/T6 thoracic vertebra, sequela                  | Diagnosis     | ICD-10-CM |
| S23.14   | Subluxation and dislocation of T6/T7-T7/T8 thoracic vertebra     | Diagnosis     | ICD-10-CM |
| S23.140  | Subluxation of T6/T7 thoracic vertebra                           | Diagnosis     | ICD-10-CM |
| S23.140A | Subluxation of T6/T7 thoracic vertebra, initial encounter        | Diagnosis     | ICD-10-CM |
| S23.140D | Subluxation of T6/T7 thoracic vertebra, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S23.140S | Subluxation of T6/T7 thoracic vertebra, sequela                  | Diagnosis     | ICD-10-CM |
| S23.141  | Dislocation of T6/T7 thoracic vertebra                           | Diagnosis     | ICD-10-CM |
| S23.141A | Dislocation of T6/T7 thoracic vertebra, initial encounter        | Diagnosis     | ICD-10-CM |
| S23.141D | Dislocation of T6/T7 thoracic vertebra, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S23.141S | Dislocation of T6/T7 thoracic vertebra, sequela                  | Diagnosis     | ICD-10-CM |
| S23.142  | Subluxation of T7/T8 thoracic vertebra                           | Diagnosis     | ICD-10-CM |
| S23.142A | Subluxation of T7/T8 thoracic vertebra, initial encounter        | Diagnosis     | ICD-10-CM |
| S23.142D | Subluxation of T7/T8 thoracic vertebra, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S23.142S | Subluxation of T7/T8 thoracic vertebra, sequela                  | Diagnosis     | ICD-10-CM |
| S23.143  | Dislocation of T7/T8 thoracic vertebra                           | Diagnosis     | ICD-10-CM |
| S23.143A | Dislocation of T7/T8 thoracic vertebra, initial encounter        | Diagnosis     | ICD-10-CM |
| S23.143D | Dislocation of T7/T8 thoracic vertebra, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S23.143S | Dislocation of T7/T8 thoracic vertebra, sequela                  | Diagnosis     | ICD-10-CM |
| S23.15   | Subluxation and dislocation of T8/T9-T9/T10 thoracic vertebra    | Diagnosis     | ICD-10-CM |
| S23.150  | Subluxation of T8/T9 thoracic vertebra                           | Diagnosis     | ICD-10-CM |
| S23.150A | Subluxation of T8/T9 thoracic vertebra, initial encounter        | Diagnosis     | ICD-10-CM |
| S23.150D | Subluxation of T8/T9 thoracic vertebra, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S23.150S | Subluxation of T8/T9 thoracic vertebra, sequela                  | Diagnosis     | ICD-10-CM |
| S23.151  | Dislocation of T8/T9 thoracic vertebra                           | Diagnosis     | ICD-10-CM |
| S23.151A | Dislocation of T8/T9 thoracic vertebra, initial encounter        | Diagnosis     | ICD-10-CM |
| S23.151D | Dislocation of T8/T9 thoracic vertebra, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S23.151S | Dislocation of T8/T9 thoracic vertebra, sequela                  | Diagnosis     | ICD-10-CM |
| S23.152  | Subluxation of T9/T10 thoracic vertebra                          | Diagnosis     | ICD-10-CM |
| S23.152A | Subluxation of T9/T10 thoracic vertebra, initial encounter       | Diagnosis     | ICD-10-CM |
| S23.152D | Subluxation of T9/T10 thoracic vertebra, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S23.152S | Subluxation of T9/T10 thoracic vertebra, sequela                 | Diagnosis     | ICD-10-CM |
| S23.153  | Dislocation of T9/T10 thoracic vertebra                          | Diagnosis     | ICD-10-CM |
| S23.153A | Dislocation of T9/T10 thoracic vertebra, initial encounter       | Diagnosis     | ICD-10-CM |
| S23.153D | Dislocation of T9/T10 thoracic vertebra, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S23.153S | Dislocation of T9/T10 thoracic vertebra, sequela                 | Diagnosis     | ICD-10-CM |
| S23.16   | Subluxation and dislocation of T10/T11-T11/T12 thoracic vertebra | Diagnosis     | ICD-10-CM |
| S23.160  | Subluxation of T10/T11 thoracic vertebra                         | Diagnosis     | ICD-10-CM |
| S23.160A | Subluxation of T10/T11 thoracic vertebra, initial encounter      | Diagnosis     | ICD-10-CM |
| S23.160D | Subluxation of T10/T11 thoracic vertebra, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S23.160S | Subluxation of T10/T11 thoracic vertebra, sequela                | Diagnosis     | ICD-10-CM |
| S23.161  | Dislocation of T10/T11 thoracic vertebra                         | Diagnosis     | ICD-10-CM |
| S23.161A | Dislocation of T10/T11 thoracic vertebra, initial encounter      | Diagnosis     | ICD-10-CM |
| S23.161D | Dislocation of T10/T11 thoracic vertebra, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S23.161S | Dislocation of T10/T11 thoracic vertebra, sequela                | Diagnosis     | ICD-10-CM |
| S23.162  | Subluxation of T11/T12 thoracic vertebra                         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S23.162A | Subluxation of T11/T12 thoracic vertebra, initial encounter         | Diagnosis     | ICD-10-CM |
| S23.162D | Subluxation of T11/T12 thoracic vertebra, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S23.162S | Subluxation of T11/T12 thoracic vertebra, sequela                   | Diagnosis     | ICD-10-CM |
| S23.163  | Dislocation of T11/T12 thoracic vertebra                            | Diagnosis     | ICD-10-CM |
| S23.163A | Dislocation of T11/T12 thoracic vertebra, initial encounter         | Diagnosis     | ICD-10-CM |
| S23.163D | Dislocation of T11/T12 thoracic vertebra, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S23.163S | Dislocation of T11/T12 thoracic vertebra, sequela                   | Diagnosis     | ICD-10-CM |
| S23.17   | Subluxation and dislocation of T12/L1 thoracic vertebra             | Diagnosis     | ICD-10-CM |
| S23.170  | Subluxation of T12/L1 thoracic vertebra                             | Diagnosis     | ICD-10-CM |
| S23.170A | Subluxation of T12/L1 thoracic vertebra, initial encounter          | Diagnosis     | ICD-10-CM |
| S23.170D | Subluxation of T12/L1 thoracic vertebra, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S23.170S | Subluxation of T12/L1 thoracic vertebra, sequela                    | Diagnosis     | ICD-10-CM |
| S23.171  | Dislocation of T12/L1 thoracic vertebra                             | Diagnosis     | ICD-10-CM |
| S23.171A | Dislocation of T12/L1 thoracic vertebra, initial encounter          | Diagnosis     | ICD-10-CM |
| S23.171D | Dislocation of T12/L1 thoracic vertebra, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S23.171S | Dislocation of T12/L1 thoracic vertebra, sequela                    | Diagnosis     | ICD-10-CM |
| S23.2    | Dislocation of other and unspecified parts of thorax                | Diagnosis     | ICD-10-CM |
| S23.20   | Dislocation of unspecified part of thorax                           | Diagnosis     | ICD-10-CM |
| S23.20XA | Dislocation of unspecified part of thorax, initial encounter        | Diagnosis     | ICD-10-CM |
| S23.20XD | Dislocation of unspecified part of thorax, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S23.20XS | Dislocation of unspecified part of thorax, sequela                  | Diagnosis     | ICD-10-CM |
| S23.29   | Dislocation of other parts of thorax                                | Diagnosis     | ICD-10-CM |
| S23.29XA | Dislocation of other parts of thorax, initial encounter             | Diagnosis     | ICD-10-CM |
| S23.29XD | Dislocation of other parts of thorax, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S23.29XS | Dislocation of other parts of thorax, sequela                       | Diagnosis     | ICD-10-CM |
| S23.3    | Sprain of ligaments of thoracic spine                               | Diagnosis     | ICD-10-CM |
| S23.3XXA | Sprain of ligaments of thoracic spine, initial encounter            | Diagnosis     | ICD-10-CM |
| S23.3XXD | Sprain of ligaments of thoracic spine, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S23.3XXS | Sprain of ligaments of thoracic spine, sequela                      | Diagnosis     | ICD-10-CM |
| S23.4    | Sprain of ribs and sternum  | Diagnosis     | ICD-10-CM |
| S23.41   | Sprain of ribs  | Diagnosis     | ICD-10-CM |
| S23.41XA | Sprain of ribs, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S23.41XD | Sprain of ribs, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S23.41XS | Sprain of ribs, sequela   | Diagnosis     | ICD-10-CM |
| S23.42   | Sprain of sternum   | Diagnosis     | ICD-10-CM |
| S23.420  | Sprain of sternoclavicular (joint) (ligament)                       | Diagnosis     | ICD-10-CM |
| S23.420A | Sprain of sternoclavicular (joint) (ligament), initial encounter    | Diagnosis     | ICD-10-CM |
| S23.420D | Sprain of sternoclavicular (joint) (ligament), subsequent encounter | Diagnosis     | ICD-10-CM |
| S23.420S | Sprain of sternoclavicular (joint) (ligament), sequela              | Diagnosis     | ICD-10-CM |
| S23.421  | Sprain of chondrosternal joint                                      | Diagnosis     | ICD-10-CM |
| S23.421A | Sprain of chondrosternal joint, initial encounter                   | Diagnosis     | ICD-10-CM |
| S23.421D | Sprain of chondrosternal joint, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S23.421S | Sprain of chondrosternal joint, sequela                             | Diagnosis     | ICD-10-CM |
| S23.428  | Other sprain of sternum   | Diagnosis     | ICD-10-CM |
| S23.428A | Other sprain of sternum, initial encounter                          | Diagnosis     | ICD-10-CM |
| S23.428D | Other sprain of sternum, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S23.428S | Other sprain of sternum, sequela                                    | Diagnosis     | ICD-10-CM |
| S23.429  | Unspecified sprain of sternum                                       | Diagnosis     | ICD-10-CM |
| S23.429A | Unspecified sprain of sternum, initial encounter                    | Diagnosis     | ICD-10-CM |
| S23.429D | Unspecified sprain of sternum, subsequent encounter                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S23.429S | Unspecified sprain of sternum, sequela  | Diagnosis     | ICD-10-CM |
| S23.8    | Sprain of other specified parts of thorax   | Diagnosis     | ICD-10-CM |
| S23.8XXA | Sprain of other specified parts of thorax, initial encounter                          | Diagnosis     | ICD-10-CM |
| S23.8XXD | Sprain of other specified parts of thorax, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S23.8XXS | Sprain of other specified parts of thorax, sequela                                    | Diagnosis     | ICD-10-CM |
| S23.9    | Sprain of unspecified parts of thorax   | Diagnosis     | ICD-10-CM |
| S23.9XXA | Sprain of unspecified parts of thorax, initial encounter                              | Diagnosis     | ICD-10-CM |
| S23.9XXD | Sprain of unspecified parts of thorax, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S23.9XXS | Sprain of unspecified parts of thorax, sequela  | Diagnosis     | ICD-10-CM |
| S24      | Injury of nerves and spinal cord at thorax level                                      | Diagnosis     | ICD-10-CM |
| S24.0    | Concussion and edema of thoracic spinal cord  | Diagnosis     | ICD-10-CM |
| S24.0XXA | Concussion and edema of thoracic spinal cord, initial encounter                       | Diagnosis     | ICD-10-CM |
| S24.0XXD | Concussion and edema of thoracic spinal cord, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S24.0XXS | Concussion and edema of thoracic spinal cord, sequela                                 | Diagnosis     | ICD-10-CM |
| S24.1    | Other and unspecified injuries of thoracic spinal cord                                | Diagnosis     | ICD-10-CM |
| S24.10   | Unspecified injury of thoracic spinal cord  | Diagnosis     | ICD-10-CM |
| S24.101  | Unspecified injury at T1 level of thoracic spinal cord                                | Diagnosis     | ICD-10-CM |
| S24.101A | Unspecified injury at T1 level of thoracic spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S24.101D | Unspecified injury at T1 level of thoracic spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S24.101S | Unspecified injury at T1 level of thoracic spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S24.102  | Unspecified injury at T2-T6 level of thoracic spinal cord                             | Diagnosis     | ICD-10-CM |
| S24.102A | Unspecified injury at T2-T6 level of thoracic spinal cord, initial encounter          | Diagnosis     | ICD-10-CM |
| S24.102D | Unspecified injury at T2-T6 level of thoracic spinal cord, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S24.102S | Unspecified injury at T2-T6 level of thoracic spinal cord, sequela                    | Diagnosis     | ICD-10-CM |
| S24.103  | Unspecified injury at T7-T10 level of thoracic spinal cord                            | Diagnosis     | ICD-10-CM |
| S24.103A | Unspecified injury at T7-T10 level of thoracic spinal cord, initial encounter         | Diagnosis     | ICD-10-CM |
| S24.103D | Unspecified injury at T7-T10 level of thoracic spinal cord, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S24.103S | Unspecified injury at T7-T10 level of thoracic spinal cord, sequela                   | Diagnosis     | ICD-10-CM |
| S24.104  | Unspecified injury at T11-T12 level of thoracic spinal cord                           | Diagnosis     | ICD-10-CM |
| S24.104A | Unspecified injury at T11-T12 level of thoracic spinal cord, initial encounter        | Diagnosis     | ICD-10-CM |
| S24.104D | Unspecified injury at T11-T12 level of thoracic spinal cord, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S24.104S | Unspecified injury at T11-T12 level of thoracic spinal cord, sequela                  | Diagnosis     | ICD-10-CM |
| S24.109  | Unspecified injury at unspecified level of thoracic spinal cord                       | Diagnosis     | ICD-10-CM |
| S24.109A | Unspecified injury at unspecified level of thoracic spinal cord, initial encounter    | Diagnosis     | ICD-10-CM |
| S24.109D | Unspecified injury at unspecified level of thoracic spinal cord, subsequent encounter | Diagnosis     | ICD-10-CM |
| S24.109S | Unspecified injury at unspecified level of thoracic spinal cord, sequela              | Diagnosis     | ICD-10-CM |
| S24.11   | Complete lesion of thoracic spinal cord   | Diagnosis     | ICD-10-CM |
| S24.111  | Complete lesion at T1 level of thoracic spinal cord                                   | Diagnosis     | ICD-10-CM |
| S24.111A | Complete lesion at T1 level of thoracic spinal cord, initial encounter                | Diagnosis     | ICD-10-CM |
| S24.111D | Complete lesion at T1 level of thoracic spinal cord, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S24.111S | Complete lesion at T1 level of thoracic spinal cord, sequela                          | Diagnosis     | ICD-10-CM |
| S24.112  | Complete lesion at T2-T6 level of thoracic spinal cord                                | Diagnosis     | ICD-10-CM |
| S24.112A | Complete lesion at T2-T6 level of thoracic spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S24.112D | Complete lesion at T2-T6 level of thoracic spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S24.112S | Complete lesion at T2-T6 level of thoracic spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S24.113  | Complete lesion at T7-T10 level of thoracic spinal cord                               | Diagnosis     | ICD-10-CM |
| S24.113A | Complete lesion at T7-T10 level of thoracic spinal cord, initial encounter            | Diagnosis     | ICD-10-CM |
| S24.113D | Complete lesion at T7-T10 level of thoracic spinal cord, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S24.113S | Complete lesion at T7-T10 level of thoracic spinal cord, sequela                      | Diagnosis     | ICD-10-CM |
| S24.114  | Complete lesion at T11-T12 level of thoracic spinal cord                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S24.114A | Complete lesion at T11-T12 level of thoracic spinal cord, initial encounter               | Diagnosis     | ICD-10-CM |
| S24.114D | Complete lesion at T11-T12 level of thoracic spinal cord, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S24.114S | Complete lesion at T11-T12 level of thoracic spinal cord, sequela                         | Diagnosis     | ICD-10-CM |
| S24.119  | Complete lesion at unspecified level of thoracic spinal cord                              | Diagnosis     | ICD-10-CM |
| S24.119A | Complete lesion at unspecified level of thoracic spinal cord, initial encounter           | Diagnosis     | ICD-10-CM |
| S24.119D | Complete lesion at unspecified level of thoracic spinal cord, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S24.119S | Complete lesion at unspecified level of thoracic spinal cord, sequela                     | Diagnosis     | ICD-10-CM |
| S24.13   | Anterior cord syndrome of thoracic spinal cord  | Diagnosis     | ICD-10-CM |
| S24.131  | Anterior cord syndrome at T1 level of thoracic spinal cord                                | Diagnosis     | ICD-10-CM |
| S24.131A | Anterior cord syndrome at T1 level of thoracic spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S24.131D | Anterior cord syndrome at T1 level of thoracic spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S24.131S | Anterior cord syndrome at T1 level of thoracic spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S24.132  | Anterior cord syndrome at T2-T6 level of thoracic spinal cord                             | Diagnosis     | ICD-10-CM |
| S24.132A | Anterior cord syndrome at T2-T6 level of thoracic spinal cord, initial encounter          | Diagnosis     | ICD-10-CM |
| S24.132D | Anterior cord syndrome at T2-T6 level of thoracic spinal cord, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S24.132S | Anterior cord syndrome at T2-T6 level of thoracic spinal cord, sequela                    | Diagnosis     | ICD-10-CM |
| S24.133  | Anterior cord syndrome at T7-T10 level of thoracic spinal cord                            | Diagnosis     | ICD-10-CM |
| S24.133A | Anterior cord syndrome at T7-T10 level of thoracic spinal cord, initial encounter         | Diagnosis     | ICD-10-CM |
| S24.133D | Anterior cord syndrome at T7-T10 level of thoracic spinal cord, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S24.133S | Anterior cord syndrome at T7-T10 level of thoracic spinal cord, sequela                   | Diagnosis     | ICD-10-CM |
| S24.134  | Anterior cord syndrome at T11-T12 level of thoracic spinal cord                           | Diagnosis     | ICD-10-CM |
| S24.134A | Anterior cord syndrome at T11-T12 level of thoracic spinal cord, initial encounter        | Diagnosis     | ICD-10-CM |
| S24.134D | Anterior cord syndrome at T11-T12 level of thoracic spinal cord, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S24.134S | Anterior cord syndrome at T11-T12 level of thoracic spinal cord, sequela                  | Diagnosis     | ICD-10-CM |
| S24.139  | Anterior cord syndrome at unspecified level of thoracic spinal cord                       | Diagnosis     | ICD-10-CM |
| S24.139A | Anterior cord syndrome at unspecified level of thoracic spinal cord, initial encounter    | Diagnosis     | ICD-10-CM |
| S24.139D | Anterior cord syndrome at unspecified level of thoracic spinal cord, subsequent encounter | Diagnosis     | ICD-10-CM |
| S24.139S | Anterior cord syndrome at unspecified level of thoracic spinal cord, sequela              | Diagnosis     | ICD-10-CM |
| S24.14   | Brown-Sequard syndrome of thoracic spinal cord  | Diagnosis     | ICD-10-CM |
| S24.141  | Brown-Sequard syndrome at T1 level of thoracic spinal cord                                | Diagnosis     | ICD-10-CM |
| S24.141A | Brown-Sequard syndrome at T1 level of thoracic spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S24.141D | Brown-Sequard syndrome at T1 level of thoracic spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S24.141S | Brown-Sequard syndrome at T1 level of thoracic spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S24.142  | Brown-Sequard syndrome at T2-T6 level of thoracic spinal cord                             | Diagnosis     | ICD-10-CM |
| S24.142A | Brown-Sequard syndrome at T2-T6 level of thoracic spinal cord, initial encounter          | Diagnosis     | ICD-10-CM |
| S24.142D | Brown-Sequard syndrome at T2-T6 level of thoracic spinal cord, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S24.142S | Brown-Sequard syndrome at T2-T6 level of thoracic spinal cord, sequela                    | Diagnosis     | ICD-10-CM |
| S24.143  | Brown-Sequard syndrome at T7-T10 level of thoracic spinal cord                            | Diagnosis     | ICD-10-CM |
| S24.143A | Brown-Sequard syndrome at T7-T10 level of thoracic spinal cord, initial encounter         | Diagnosis     | ICD-10-CM |
| S24.143D | Brown-Sequard syndrome at T7-T10 level of thoracic spinal cord, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S24.143S | Brown-Sequard syndrome at T7-T10 level of thoracic spinal cord, sequela                   | Diagnosis     | ICD-10-CM |
| S24.144  | Brown-Sequard syndrome at T11-T12 level of thoracic spinal cord                           | Diagnosis     | ICD-10-CM |
| S24.144A | Brown-Sequard syndrome at T11-T12 level of thoracic spinal cord, initial encounter        | Diagnosis     | ICD-10-CM |
| S24.144D | Brown-Sequard syndrome at T11-T12 level of thoracic spinal cord, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S24.144S | Brown-Sequard syndrome at T11-T12 level of thoracic spinal cord, sequela                  | Diagnosis     | ICD-10-CM |
| S24.149  | Brown-Sequard syndrome at unspecified level of thoracic spinal cord                       | Diagnosis     | ICD-10-CM |
| S24.149A | Brown-Sequard syndrome at unspecified level of thoracic spinal cord, initial encounter    | Diagnosis     | ICD-10-CM |
| S24.149D | Brown-Sequard syndrome at unspecified level of thoracic spinal cord, subsequent encounter | Diagnosis     | ICD-10-CM |
| S24.149S | Brown-Sequard syndrome at unspecified level of thoracic spinal cord, sequela              | Diagnosis     | ICD-10-CM |
| S24.15   | Other incomplete lesions of thoracic spinal cord  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S24.151  | Other incomplete lesion at T1 level of thoracic spinal cord                                | Diagnosis     | ICD-10-CM |
| S24.151A | Other incomplete lesion at T1 level of thoracic spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S24.151D | Other incomplete lesion at T1 level of thoracic spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S24.151S | Other incomplete lesion at T1 level of thoracic spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S24.152  | Other incomplete lesion at T2-T6 level of thoracic spinal cord                             | Diagnosis     | ICD-10-CM |
| S24.152A | Other incomplete lesion at T2-T6 level of thoracic spinal cord, initial encounter          | Diagnosis     | ICD-10-CM |
| S24.152D | Other incomplete lesion at T2-T6 level of thoracic spinal cord, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S24.152S | Other incomplete lesion at T2-T6 level of thoracic spinal cord, sequela                    | Diagnosis     | ICD-10-CM |
| S24.153  | Other incomplete lesion at T7-T10 level of thoracic spinal cord                            | Diagnosis     | ICD-10-CM |
| S24.153A | Other incomplete lesion at T7-T10 level of thoracic spinal cord, initial encounter         | Diagnosis     | ICD-10-CM |
| S24.153D | Other incomplete lesion at T7-T10 level of thoracic spinal cord, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S24.153S | Other incomplete lesion at T7-T10 level of thoracic spinal cord, sequela                   | Diagnosis     | ICD-10-CM |
| S24.154  | Other incomplete lesion at T11-T12 level of thoracic spinal cord                           | Diagnosis     | ICD-10-CM |
| S24.154A | Other incomplete lesion at T11-T12 level of thoracic spinal cord, initial encounter        | Diagnosis     | ICD-10-CM |
| S24.154D | Other incomplete lesion at T11-T12 level of thoracic spinal cord, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S24.154S | Other incomplete lesion at T11-T12 level of thoracic spinal cord, sequela                  | Diagnosis     | ICD-10-CM |
| S24.159  | Other incomplete lesion at unspecified level of thoracic spinal cord                       | Diagnosis     | ICD-10-CM |
| S24.159A | Other incomplete lesion at unspecified level of thoracic spinal cord, initial encounter    | Diagnosis     | ICD-10-CM |
| S24.159D | Other incomplete lesion at unspecified level of thoracic spinal cord, subsequent encounter | Diagnosis     | ICD-10-CM |
| S24.159S | Other incomplete lesion at unspecified level of thoracic spinal cord, sequela              | Diagnosis     | ICD-10-CM |
| S24.2    | Injury of nerve root of thoracic spine   | Diagnosis     | ICD-10-CM |
| S24.2XXA | Injury of nerve root of thoracic spine, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S24.2XXD | Injury of nerve root of thoracic spine, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S24.2XXS | Injury of nerve root of thoracic spine, sequela  | Diagnosis     | ICD-10-CM |
| S24.3    | Injury of peripheral nerves of thorax  | Diagnosis     | ICD-10-CM |
| S24.3XXA | Injury of peripheral nerves of thorax, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S24.3XXD | Injury of peripheral nerves of thorax, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S24.3XXS | Injury of peripheral nerves of thorax, sequela   | Diagnosis     | ICD-10-CM |
| S24.4    | Injury of thoracic sympathetic nervous system  | Diagnosis     | ICD-10-CM |
| S24.4XXA | Injury of thoracic sympathetic nervous system, initial encounter                           | Diagnosis     | ICD-10-CM |
| S24.4XXD | Injury of thoracic sympathetic nervous system, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S24.4XXS | Injury of thoracic sympathetic nervous system, sequela                                     | Diagnosis     | ICD-10-CM |
| S24.8    | Injury of other specified nerves of thorax   | Diagnosis     | ICD-10-CM |
| S24.8XXA | Injury of other specified nerves of thorax, initial encounter                              | Diagnosis     | ICD-10-CM |
| S24.8XXD | Injury of other specified nerves of thorax, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S24.8XXS | Injury of other specified nerves of thorax, sequela  | Diagnosis     | ICD-10-CM |
| S24.9    | Injury of unspecified nerve of thorax  | Diagnosis     | ICD-10-CM |
| S24.9XXA | Injury of unspecified nerve of thorax, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S24.9XXD | Injury of unspecified nerve of thorax, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S24.9XXS | Injury of unspecified nerve of thorax, sequela   | Diagnosis     | ICD-10-CM |
| S25      | Injury of blood vessels of thorax  | Diagnosis     | ICD-10-CM |
| S25.0    | Injury of thoracic aorta   | Diagnosis     | ICD-10-CM |
| S25.00   | Unspecified injury of thoracic aorta   | Diagnosis     | ICD-10-CM |
| S25.00XA | Unspecified injury of thoracic aorta, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S25.00XD | Unspecified injury of thoracic aorta, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S25.00XS | Unspecified injury of thoracic aorta, sequela  | Diagnosis     | ICD-10-CM |
| S25.01   | Minor laceration of thoracic aorta   | Diagnosis     | ICD-10-CM |
| S25.01XA | Minor laceration of thoracic aorta, initial encounter                                      | Diagnosis     | ICD-10-CM |
| S25.01XD | Minor laceration of thoracic aorta, subsequent encounter                                   | Diagnosis     | ICD-10-CM |
| S25.01XS | Minor laceration of thoracic aorta, sequela  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S25.02   | Major laceration of thoracic aorta  | Diagnosis     | ICD-10-CM |
| S25.02XA | Major laceration of thoracic aorta, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S25.02XD | Major laceration of thoracic aorta, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S25.02XS | Major laceration of thoracic aorta, sequela   | Diagnosis     | ICD-10-CM |
| S25.09   | Other specified injury of thoracic aorta  | Diagnosis     | ICD-10-CM |
| S25.09XA | Other specified injury of thoracic aorta, initial encounter                             | Diagnosis     | ICD-10-CM |
| S25.09XD | Other specified injury of thoracic aorta, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S25.09XS | Other specified injury of thoracic aorta, sequela                                       | Diagnosis     | ICD-10-CM |
| S25.1    | Injury of innominate or subclavian artery   | Diagnosis     | ICD-10-CM |
| S25.10   | Unspecified injury of innominate or subclavian artery                                   | Diagnosis     | ICD-10-CM |
| S25.101  | Unspecified injury of right innominate or subclavian artery                             | Diagnosis     | ICD-10-CM |
| S25.101A | Unspecified injury of right innominate or subclavian artery, initial encounter          | Diagnosis     | ICD-10-CM |
| S25.101D | Unspecified injury of right innominate or subclavian artery, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S25.101S | Unspecified injury of right innominate or subclavian artery, sequela                    | Diagnosis     | ICD-10-CM |
| S25.102  | Unspecified injury of left innominate or subclavian artery                              | Diagnosis     | ICD-10-CM |
| S25.102A | Unspecified injury of left innominate or subclavian artery, initial encounter           | Diagnosis     | ICD-10-CM |
| S25.102D | Unspecified injury of left innominate or subclavian artery, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S25.102S | Unspecified injury of left innominate or subclavian artery, sequela                     | Diagnosis     | ICD-10-CM |
| S25.109  | Unspecified injury of unspecified innominate or subclavian artery                       | Diagnosis     | ICD-10-CM |
| S25.109A | Unspecified injury of unspecified innominate or subclavian artery, initial encounter    | Diagnosis     | ICD-10-CM |
| S25.109D | Unspecified injury of unspecified innominate or subclavian artery, subsequent encounter | Diagnosis     | ICD-10-CM |
| S25.109S | Unspecified injury of unspecified innominate or subclavian artery, sequela              | Diagnosis     | ICD-10-CM |
| S25.11   | Minor laceration of innominate or subclavian artery                                     | Diagnosis     | ICD-10-CM |
| S25.111  | Minor laceration of right innominate or subclavian artery                               | Diagnosis     | ICD-10-CM |
| S25.111A | Minor laceration of right innominate or subclavian artery, initial encounter            | Diagnosis     | ICD-10-CM |
| S25.111D | Minor laceration of right innominate or subclavian artery, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S25.111S | Minor laceration of right innominate or subclavian artery, sequela                      | Diagnosis     | ICD-10-CM |
| S25.112  | Minor laceration of left innominate or subclavian artery                                | Diagnosis     | ICD-10-CM |
| S25.112A | Minor laceration of left innominate or subclavian artery, initial encounter             | Diagnosis     | ICD-10-CM |
| S25.112D | Minor laceration of left innominate or subclavian artery, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S25.112S | Minor laceration of left innominate or subclavian artery, sequela                       | Diagnosis     | ICD-10-CM |
| S25.119  | Minor laceration of unspecified innominate or subclavian artery                         | Diagnosis     | ICD-10-CM |
| S25.119A | Minor laceration of unspecified innominate or subclavian artery, initial encounter      | Diagnosis     | ICD-10-CM |
| S25.119D | Minor laceration of unspecified innominate or subclavian artery, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S25.119S | Minor laceration of unspecified innominate or subclavian artery, sequela                | Diagnosis     | ICD-10-CM |
| S25.12   | Major laceration of innominate or subclavian artery                                     | Diagnosis     | ICD-10-CM |
| S25.121  | Major laceration of right innominate or subclavian artery                               | Diagnosis     | ICD-10-CM |
| S25.121A | Major laceration of right innominate or subclavian artery, initial encounter            | Diagnosis     | ICD-10-CM |
| S25.121D | Major laceration of right innominate or subclavian artery, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S25.121S | Major laceration of right innominate or subclavian artery, sequela                      | Diagnosis     | ICD-10-CM |
| S25.122  | Major laceration of left innominate or subclavian artery                                | Diagnosis     | ICD-10-CM |
| S25.122A | Major laceration of left innominate or subclavian artery, initial encounter             | Diagnosis     | ICD-10-CM |
| S25.122D | Major laceration of left innominate or subclavian artery, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S25.122S | Major laceration of left innominate or subclavian artery, sequela                       | Diagnosis     | ICD-10-CM |
| S25.129  | Major laceration of unspecified innominate or subclavian artery                         | Diagnosis     | ICD-10-CM |
| S25.129A | Major laceration of unspecified innominate or subclavian artery, initial encounter      | Diagnosis     | ICD-10-CM |
| S25.129D | Major laceration of unspecified innominate or subclavian artery, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S25.129S | Major laceration of unspecified innominate or subclavian artery, sequela                | Diagnosis     | ICD-10-CM |
| S25.19   | Other specified injury of innominate or subclavian artery                               | Diagnosis     | ICD-10-CM |
| S25.191  | Other specified injury of right innominate or subclavian artery                         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S25.191A | Other specified injury of right innominate or subclavian artery, initial encounter          | Diagnosis     | ICD-10-CM |
| S25.191D | Other specified injury of right innominate or subclavian artery, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S25.191S | Other specified injury of right innominate or subclavian artery, sequela                    | Diagnosis     | ICD-10-CM |
| S25.192  | Other specified injury of left innominate or subclavian artery                              | Diagnosis     | ICD-10-CM |
| S25.192A | Other specified injury of left innominate or subclavian artery, initial encounter           | Diagnosis     | ICD-10-CM |
| S25.192D | Other specified injury of left innominate or subclavian artery, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S25.192S | Other specified injury of left innominate or subclavian artery, sequela                     | Diagnosis     | ICD-10-CM |
| S25.199  | Other specified injury of unspecified innominate or subclavian artery                       | Diagnosis     | ICD-10-CM |
| S25.199A | Other specified injury of unspecified innominate or subclavian artery, initial encounter    | Diagnosis     | ICD-10-CM |
| S25.199D | Other specified injury of unspecified innominate or subclavian artery, subsequent encounter | Diagnosis     | ICD-10-CM |
| S25.199S | Other specified injury of unspecified innominate or subclavian artery, sequela              | Diagnosis     | ICD-10-CM |
| S25.2    | Injury of superior vena cava  | Diagnosis     | ICD-10-CM |
| S25.20   | Unspecified injury of superior vena cava  | Diagnosis     | ICD-10-CM |
| S25.20XA | Unspecified injury of superior vena cava, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S25.20XD | Unspecified injury of superior vena cava, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S25.20XS | Unspecified injury of superior vena cava, sequela   | Diagnosis     | ICD-10-CM |
| S25.21   | Minor laceration of superior vena cava  | Diagnosis     | ICD-10-CM |
| S25.21XA | Minor laceration of superior vena cava, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S25.21XD | Minor laceration of superior vena cava, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S25.21XS | Minor laceration of superior vena cava, sequela   | Diagnosis     | ICD-10-CM |
| S25.22   | Major laceration of superior vena cava  | Diagnosis     | ICD-10-CM |
| S25.22XA | Major laceration of superior vena cava, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S25.22XD | Major laceration of superior vena cava, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S25.22XS | Major laceration of superior vena cava, sequela   | Diagnosis     | ICD-10-CM |
| S25.29   | Other specified injury of superior vena cava  | Diagnosis     | ICD-10-CM |
| S25.29XA | Other specified injury of superior vena cava, initial encounter                             | Diagnosis     | ICD-10-CM |
| S25.29XD | Other specified injury of superior vena cava, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S25.29XS | Other specified injury of superior vena cava, sequela                                       | Diagnosis     | ICD-10-CM |
| S25.3    | Injury of innominate or subclavian vein   | Diagnosis     | ICD-10-CM |
| S25.30   | Unspecified injury of innominate or subclavian vein   | Diagnosis     | ICD-10-CM |
| S25.301  | Unspecified injury of right innominate or subclavian vein                                   | Diagnosis     | ICD-10-CM |
| S25.301A | Unspecified injury of right innominate or subclavian vein, initial encounter                | Diagnosis     | ICD-10-CM |
| S25.301D | Unspecified injury of right innominate or subclavian vein, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S25.301S | Unspecified injury of right innominate or subclavian vein, sequela                          | Diagnosis     | ICD-10-CM |
| S25.302  | Unspecified injury of left innominate or subclavian vein                                    | Diagnosis     | ICD-10-CM |
| S25.302A | Unspecified injury of left innominate or subclavian vein, initial encounter                 | Diagnosis     | ICD-10-CM |
| S25.302D | Unspecified injury of left innominate or subclavian vein, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S25.302S | Unspecified injury of left innominate or subclavian vein, sequela                           | Diagnosis     | ICD-10-CM |
| S25.309  | Unspecified injury of unspecified innominate or subclavian vein                             | Diagnosis     | ICD-10-CM |
| S25.309A | Unspecified injury of unspecified innominate or subclavian vein, initial encounter          | Diagnosis     | ICD-10-CM |
| S25.309D | Unspecified injury of unspecified innominate or subclavian vein, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S25.309S | Unspecified injury of unspecified innominate or subclavian vein, sequela                    | Diagnosis     | ICD-10-CM |
| S25.31   | Minor laceration of innominate or subclavian vein   | Diagnosis     | ICD-10-CM |
| S25.311  | Minor laceration of right innominate or subclavian vein                                     | Diagnosis     | ICD-10-CM |
| S25.311A | Minor laceration of right innominate or subclavian vein, initial encounter                  | Diagnosis     | ICD-10-CM |
| S25.311D | Minor laceration of right innominate or subclavian vein, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S25.311S | Minor laceration of right innominate or subclavian vein, sequela                            | Diagnosis     | ICD-10-CM |
| S25.312  | Minor laceration of left innominate or subclavian vein                                      | Diagnosis     | ICD-10-CM |
| S25.312A | Minor laceration of left innominate or subclavian vein, initial encounter                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S25.312D | Minor laceration of left innominate or subclavian vein, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S25.312S | Minor laceration of left innominate or subclavian vein, sequela                           | Diagnosis     | ICD-10-CM |
| S25.319  | Minor laceration of unspecified innominate or subclavian vein                             | Diagnosis     | ICD-10-CM |
| S25.319A | Minor laceration of unspecified innominate or subclavian vein, initial encounter          | Diagnosis     | ICD-10-CM |
| S25.319D | Minor laceration of unspecified innominate or subclavian vein, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S25.319S | Minor laceration of unspecified innominate or subclavian vein, sequela                    | Diagnosis     | ICD-10-CM |
| S25.32   | Major laceration of innominate or subclavian vein   | Diagnosis     | ICD-10-CM |
| S25.321  | Major laceration of right innominate or subclavian vein                                   | Diagnosis     | ICD-10-CM |
| S25.321A | Major laceration of right innominate or subclavian vein, initial encounter                | Diagnosis     | ICD-10-CM |
| S25.321D | Major laceration of right innominate or subclavian vein, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S25.321S | Major laceration of right innominate or subclavian vein, sequela                          | Diagnosis     | ICD-10-CM |
| S25.322  | Major laceration of left innominate or subclavian vein                                    | Diagnosis     | ICD-10-CM |
| S25.322A | Major laceration of left innominate or subclavian vein, initial encounter                 | Diagnosis     | ICD-10-CM |
| S25.322D | Major laceration of left innominate or subclavian vein, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S25.322S | Major laceration of left innominate or subclavian vein, sequela                           | Diagnosis     | ICD-10-CM |
| S25.329  | Major laceration of unspecified innominate or subclavian vein                             | Diagnosis     | ICD-10-CM |
| S25.329A | Major laceration of unspecified innominate or subclavian vein, initial encounter          | Diagnosis     | ICD-10-CM |
| S25.329D | Major laceration of unspecified innominate or subclavian vein, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S25.329S | Major laceration of unspecified innominate or subclavian vein, sequela                    | Diagnosis     | ICD-10-CM |
| S25.39   | Other specified injury of innominate or subclavian vein                                   | Diagnosis     | ICD-10-CM |
| S25.391  | Other specified injury of right innominate or subclavian vein                             | Diagnosis     | ICD-10-CM |
| S25.391A | Other specified injury of right innominate or subclavian vein, initial encounter          | Diagnosis     | ICD-10-CM |
| S25.391D | Other specified injury of right innominate or subclavian vein, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S25.391S | Other specified injury of right innominate or subclavian vein, sequela                    | Diagnosis     | ICD-10-CM |
| S25.392  | Other specified injury of left innominate or subclavian vein                              | Diagnosis     | ICD-10-CM |
| S25.392A | Other specified injury of left innominate or subclavian vein, initial encounter           | Diagnosis     | ICD-10-CM |
| S25.392D | Other specified injury of left innominate or subclavian vein, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S25.392S | Other specified injury of left innominate or subclavian vein, sequela                     | Diagnosis     | ICD-10-CM |
| S25.399  | Other specified injury of unspecified innominate or subclavian vein                       | Diagnosis     | ICD-10-CM |
| S25.399A | Other specified injury of unspecified innominate or subclavian vein, initial encounter    | Diagnosis     | ICD-10-CM |
| S25.399D | Other specified injury of unspecified innominate or subclavian vein, subsequent encounter | Diagnosis     | ICD-10-CM |
| S25.399S | Other specified injury of unspecified innominate or subclavian vein, sequela              | Diagnosis     | ICD-10-CM |
| S25.4    | Injury of pulmonary blood vessels   | Diagnosis     | ICD-10-CM |
| S25.40   | Unspecified injury of pulmonary blood vessels   | Diagnosis     | ICD-10-CM |
| S25.401  | Unspecified injury of right pulmonary blood vessels                                       | Diagnosis     | ICD-10-CM |
| S25.401A | Unspecified injury of right pulmonary blood vessels, initial encounter                    | Diagnosis     | ICD-10-CM |
| S25.401D | Unspecified injury of right pulmonary blood vessels, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S25.401S | Unspecified injury of right pulmonary blood vessels, sequela                              | Diagnosis     | ICD-10-CM |
| S25.402  | Unspecified injury of left pulmonary blood vessels  | Diagnosis     | ICD-10-CM |
| S25.402A | Unspecified injury of left pulmonary blood vessels, initial encounter                     | Diagnosis     | ICD-10-CM |
| S25.402D | Unspecified injury of left pulmonary blood vessels, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S25.402S | Unspecified injury of left pulmonary blood vessels, sequela                               | Diagnosis     | ICD-10-CM |
| S25.409  | Unspecified injury of unspecified pulmonary blood vessels                                 | Diagnosis     | ICD-10-CM |
| S25.409A | Unspecified injury of unspecified pulmonary blood vessels, initial encounter              | Diagnosis     | ICD-10-CM |
| S25.409D | Unspecified injury of unspecified pulmonary blood vessels, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S25.409S | Unspecified injury of unspecified pulmonary blood vessels, sequela                        | Diagnosis     | ICD-10-CM |
| S25.41   | Minor laceration of pulmonary blood vessels   | Diagnosis     | ICD-10-CM |
| S25.411  | Minor laceration of right pulmonary blood vessels   | Diagnosis     | ICD-10-CM |
| S25.411A | Minor laceration of right pulmonary blood vessels, initial encounter                      | Diagnosis     | ICD-10-CM |
| S25.411D | Minor laceration of right pulmonary blood vessels, subsequent encounter                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S25.411S | Minor laceration of right pulmonary blood vessels, sequela                              | Diagnosis     | ICD-10-CM |
| S25.412  | Minor laceration of left pulmonary blood vessels  | Diagnosis     | ICD-10-CM |
| S25.412A | Minor laceration of left pulmonary blood vessels, initial encounter                     | Diagnosis     | ICD-10-CM |
| S25.412D | Minor laceration of left pulmonary blood vessels, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S25.412S | Minor laceration of left pulmonary blood vessels, sequela                               | Diagnosis     | ICD-10-CM |
| S25.419  | Minor laceration of unspecified pulmonary blood vessels                                 | Diagnosis     | ICD-10-CM |
| S25.419A | Minor laceration of unspecified pulmonary blood vessels, initial encounter              | Diagnosis     | ICD-10-CM |
| S25.419D | Minor laceration of unspecified pulmonary blood vessels, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S25.419S | Minor laceration of unspecified pulmonary blood vessels, sequela                        | Diagnosis     | ICD-10-CM |
| S25.42   | Major laceration of pulmonary blood vessels   | Diagnosis     | ICD-10-CM |
| S25.421  | Major laceration of right pulmonary blood vessels                                       | Diagnosis     | ICD-10-CM |
| S25.421A | Major laceration of right pulmonary blood vessels, initial encounter                    | Diagnosis     | ICD-10-CM |
| S25.421D | Major laceration of right pulmonary blood vessels, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S25.421S | Major laceration of right pulmonary blood vessels, sequela                              | Diagnosis     | ICD-10-CM |
| S25.422  | Major laceration of left pulmonary blood vessels  | Diagnosis     | ICD-10-CM |
| S25.422A | Major laceration of left pulmonary blood vessels, initial encounter                     | Diagnosis     | ICD-10-CM |
| S25.422D | Major laceration of left pulmonary blood vessels, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S25.422S | Major laceration of left pulmonary blood vessels, sequela                               | Diagnosis     | ICD-10-CM |
| S25.429  | Major laceration of unspecified pulmonary blood vessels                                 | Diagnosis     | ICD-10-CM |
| S25.429A | Major laceration of unspecified pulmonary blood vessels, initial encounter              | Diagnosis     | ICD-10-CM |
| S25.429D | Major laceration of unspecified pulmonary blood vessels, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S25.429S | Major laceration of unspecified pulmonary blood vessels, sequela                        | Diagnosis     | ICD-10-CM |
| S25.49   | Other specified injury of pulmonary blood vessels                                       | Diagnosis     | ICD-10-CM |
| S25.491  | Other specified injury of right pulmonary blood vessels                                 | Diagnosis     | ICD-10-CM |
| S25.491A | Other specified injury of right pulmonary blood vessels, initial encounter              | Diagnosis     | ICD-10-CM |
| S25.491D | Other specified injury of right pulmonary blood vessels, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S25.491S | Other specified injury of right pulmonary blood vessels, sequela                        | Diagnosis     | ICD-10-CM |
| S25.492  | Other specified injury of left pulmonary blood vessels                                  | Diagnosis     | ICD-10-CM |
| S25.492A | Other specified injury of left pulmonary blood vessels, initial encounter               | Diagnosis     | ICD-10-CM |
| S25.492D | Other specified injury of left pulmonary blood vessels, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S25.492S | Other specified injury of left pulmonary blood vessels, sequela                         | Diagnosis     | ICD-10-CM |
| S25.499  | Other specified injury of unspecified pulmonary blood vessels                           | Diagnosis     | ICD-10-CM |
| S25.499A | Other specified injury of unspecified pulmonary blood vessels, initial encounter        | Diagnosis     | ICD-10-CM |
| S25.499D | Other specified injury of unspecified pulmonary blood vessels, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S25.499S | Other specified injury of unspecified pulmonary blood vessels, sequela                  | Diagnosis     | ICD-10-CM |
| S25.5    | Injury of intercostal blood vessels   | Diagnosis     | ICD-10-CM |
| S25.50   | Unspecified injury of intercostal blood vessels   | Diagnosis     | ICD-10-CM |
| S25.501  | Unspecified injury of intercostal blood vessels, right side                             | Diagnosis     | ICD-10-CM |
| S25.501A | Unspecified injury of intercostal blood vessels, right side, initial encounter          | Diagnosis     | ICD-10-CM |
| S25.501D | Unspecified injury of intercostal blood vessels, right side, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S25.501S | Unspecified injury of intercostal blood vessels, right side, sequela                    | Diagnosis     | ICD-10-CM |
| S25.502  | Unspecified injury of intercostal blood vessels, left side                              | Diagnosis     | ICD-10-CM |
| S25.502A | Unspecified injury of intercostal blood vessels, left side, initial encounter           | Diagnosis     | ICD-10-CM |
| S25.502D | Unspecified injury of intercostal blood vessels, left side, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S25.502S | Unspecified injury of intercostal blood vessels, left side, sequela                     | Diagnosis     | ICD-10-CM |
| S25.509  | Unspecified injury of intercostal blood vessels, unspecified side                       | Diagnosis     | ICD-10-CM |
| S25.509A | Unspecified injury of intercostal blood vessels, unspecified side, initial encounter    | Diagnosis     | ICD-10-CM |
| S25.509D | Unspecified injury of intercostal blood vessels, unspecified side, subsequent encounter | Diagnosis     | ICD-10-CM |
| S25.509S | Unspecified injury of intercostal blood vessels, unspecified side, sequela              | Diagnosis     | ICD-10-CM |
| S25.51   | Laceration of intercostal blood vessels   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S25.511  | Laceration of intercostal blood vessels, right side   | Diagnosis     | ICD-10-CM |
| S25.511A | Laceration of intercostal blood vessels, right side, initial encounter                      | Diagnosis     | ICD-10-CM |
| S25.511D | Laceration of intercostal blood vessels, right side, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S25.511S | Laceration of intercostal blood vessels, right side, sequela                                | Diagnosis     | ICD-10-CM |
| S25.512  | Laceration of intercostal blood vessels, left side  | Diagnosis     | ICD-10-CM |
| S25.512A | Laceration of intercostal blood vessels, left side, initial encounter                       | Diagnosis     | ICD-10-CM |
| S25.512D | Laceration of intercostal blood vessels, left side, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S25.512S | Laceration of intercostal blood vessels, left side, sequela                                 | Diagnosis     | ICD-10-CM |
| S25.519  | Laceration of intercostal blood vessels, unspecified side                                   | Diagnosis     | ICD-10-CM |
| S25.519A | Laceration of intercostal blood vessels, unspecified side, initial encounter                | Diagnosis     | ICD-10-CM |
| S25.519D | Laceration of intercostal blood vessels, unspecified side, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S25.519S | Laceration of intercostal blood vessels, unspecified side, sequela                          | Diagnosis     | ICD-10-CM |
| S25.59   | Other specified injury of intercostal blood vessels   | Diagnosis     | ICD-10-CM |
| S25.591  | Other specified injury of intercostal blood vessels, right side                             | Diagnosis     | ICD-10-CM |
| S25.591A | Other specified injury of intercostal blood vessels, right side, initial encounter          | Diagnosis     | ICD-10-CM |
| S25.591D | Other specified injury of intercostal blood vessels, right side, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S25.591S | Other specified injury of intercostal blood vessels, right side, sequela                    | Diagnosis     | ICD-10-CM |
| S25.592  | Other specified injury of intercostal blood vessels, left side                              | Diagnosis     | ICD-10-CM |
| S25.592A | Other specified injury of intercostal blood vessels, left side, initial encounter           | Diagnosis     | ICD-10-CM |
| S25.592D | Other specified injury of intercostal blood vessels, left side, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S25.592S | Other specified injury of intercostal blood vessels, left side, sequela                     | Diagnosis     | ICD-10-CM |
| S25.599  | Other specified injury of intercostal blood vessels, unspecified side                       | Diagnosis     | ICD-10-CM |
| S25.599A | Other specified injury of intercostal blood vessels, unspecified side, initial encounter    | Diagnosis     | ICD-10-CM |
| S25.599D | Other specified injury of intercostal blood vessels, unspecified side, subsequent encounter | Diagnosis     | ICD-10-CM |
| S25.599S | Other specified injury of intercostal blood vessels, unspecified side, sequela              | Diagnosis     | ICD-10-CM |
| S25.8    | Injury of other blood vessels of thorax   | Diagnosis     | ICD-10-CM |
| S25.80   | Unspecified injury of other blood vessels of thorax   | Diagnosis     | ICD-10-CM |
| S25.801  | Unspecified injury of other blood vessels of thorax, right side                             | Diagnosis     | ICD-10-CM |
| S25.801A | Unspecified injury of other blood vessels of thorax, right side, initial encounter          | Diagnosis     | ICD-10-CM |
| S25.801D | Unspecified injury of other blood vessels of thorax, right side, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S25.801S | Unspecified injury of other blood vessels of thorax, right side, sequela                    | Diagnosis     | ICD-10-CM |
| S25.802  | Unspecified injury of other blood vessels of thorax, left side                              | Diagnosis     | ICD-10-CM |
| S25.802A | Unspecified injury of other blood vessels of thorax, left side, initial encounter           | Diagnosis     | ICD-10-CM |
| S25.802D | Unspecified injury of other blood vessels of thorax, left side, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S25.802S | Unspecified injury of other blood vessels of thorax, left side, sequela                     | Diagnosis     | ICD-10-CM |
| S25.809  | Unspecified injury of other blood vessels of thorax, unspecified side                       | Diagnosis     | ICD-10-CM |
| S25.809A | Unspecified injury of other blood vessels of thorax, unspecified side, initial encounter    | Diagnosis     | ICD-10-CM |
| S25.809D | Unspecified injury of other blood vessels of thorax, unspecified side, subsequent encounter | Diagnosis     | ICD-10-CM |
| S25.809S | Unspecified injury of other blood vessels of thorax, unspecified side, sequela              | Diagnosis     | ICD-10-CM |
| S25.81   | Laceration of other blood vessels of thorax   | Diagnosis     | ICD-10-CM |
| S25.811  | Laceration of other blood vessels of thorax, right side                                     | Diagnosis     | ICD-10-CM |
| S25.811A | Laceration of other blood vessels of thorax, right side, initial encounter                  | Diagnosis     | ICD-10-CM |
| S25.811D | Laceration of other blood vessels of thorax, right side, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S25.811S | Laceration of other blood vessels of thorax, right side, sequela                            | Diagnosis     | ICD-10-CM |
| S25.812  | Laceration of other blood vessels of thorax, left side                                      | Diagnosis     | ICD-10-CM |
| S25.812A | Laceration of other blood vessels of thorax, left side, initial encounter                   | Diagnosis     | ICD-10-CM |
| S25.812D | Laceration of other blood vessels of thorax, left side, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S25.812S | Laceration of other blood vessels of thorax, left side, sequela                             | Diagnosis     | ICD-10-CM |
| S25.819  | Laceration of other blood vessels of thorax, unspecified side                               | Diagnosis     | ICD-10-CM |
| S25.819A | Laceration of other blood vessels of thorax, unspecified side, initial encounter            | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S25.819D | Laceration of other blood vessels of thorax, unspecified side, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S25.819S | Laceration of other blood vessels of thorax, unspecified side, sequela                          | Diagnosis     | ICD-10-CM |
| S25.89   | Other specified injury of other blood vessels of thorax   | Diagnosis     | ICD-10-CM |
| S25.891  | Other specified injury of other blood vessels of thorax, right side                             | Diagnosis     | ICD-10-CM |
| S25.891A | Other specified injury of other blood vessels of thorax, right side, initial encounter          | Diagnosis     | ICD-10-CM |
| S25.891D | Other specified injury of other blood vessels of thorax, right side, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S25.891S | Other specified injury of other blood vessels of thorax, right side, sequela                    | Diagnosis     | ICD-10-CM |
| S25.892  | Other specified injury of other blood vessels of thorax, left side                              | Diagnosis     | ICD-10-CM |
| S25.892A | Other specified injury of other blood vessels of thorax, left side, initial encounter           | Diagnosis     | ICD-10-CM |
| S25.892D | Other specified injury of other blood vessels of thorax, left side, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S25.892S | Other specified injury of other blood vessels of thorax, left side, sequela                     | Diagnosis     | ICD-10-CM |
| S25.899  | Other specified injury of other blood vessels of thorax, unspecified side                       | Diagnosis     | ICD-10-CM |
| S25.899A | Other specified injury of other blood vessels of thorax, unspecified side, initial encounter    | Diagnosis     | ICD-10-CM |
| S25.899D | Other specified injury of other blood vessels of thorax, unspecified side, subsequent encounter | Diagnosis     | ICD-10-CM |
| S25.899S | Other specified injury of other blood vessels of thorax, unspecified side, sequela              | Diagnosis     | ICD-10-CM |
| S25.9    | Injury of unspecified blood vessel of thorax  | Diagnosis     | ICD-10-CM |
| S25.90   | Unspecified injury of unspecified blood vessel of thorax  | Diagnosis     | ICD-10-CM |
| S25.90XA | Unspecified injury of unspecified blood vessel of thorax, initial encounter                     | Diagnosis     | ICD-10-CM |
| S25.90XD | Unspecified injury of unspecified blood vessel of thorax, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S25.90XS | Unspecified injury of unspecified blood vessel of thorax, sequela                               | Diagnosis     | ICD-10-CM |
| S25.91   | Laceration of unspecified blood vessel of thorax  | Diagnosis     | ICD-10-CM |
| S25.91XA | Laceration of unspecified blood vessel of thorax, initial encounter                             | Diagnosis     | ICD-10-CM |
| S25.91XD | Laceration of unspecified blood vessel of thorax, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S25.91XS | Laceration of unspecified blood vessel of thorax, sequela                                       | Diagnosis     | ICD-10-CM |
| S25.99   | Other specified injury of unspecified blood vessel of thorax                                    | Diagnosis     | ICD-10-CM |
| S25.99XA | Other specified injury of unspecified blood vessel of thorax, initial encounter                 | Diagnosis     | ICD-10-CM |
| S25.99XD | Other specified injury of unspecified blood vessel of thorax, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S25.99XS | Other specified injury of unspecified blood vessel of thorax, sequela                           | Diagnosis     | ICD-10-CM |
| S26      | Injury of heart   | Diagnosis     | ICD-10-CM |
| S26.0    | Injury of heart with hemopericardium  | Diagnosis     | ICD-10-CM |
| S26.00   | Unspecified injury of heart with hemopericardium  | Diagnosis     | ICD-10-CM |
| S26.00XA | Unspecified injury of heart with hemopericardium, initial encounter                             | Diagnosis     | ICD-10-CM |
| S26.00XD | Unspecified injury of heart with hemopericardium, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S26.00XS | Unspecified injury of heart with hemopericardium, sequela                                       | Diagnosis     | ICD-10-CM |
| S26.01   | Contusion of heart with hemopericardium   | Diagnosis     | ICD-10-CM |
| S26.01XA | Contusion of heart with hemopericardium, initial encounter                                      | Diagnosis     | ICD-10-CM |
| S26.01XD | Contusion of heart with hemopericardium, subsequent encounter                                   | Diagnosis     | ICD-10-CM |
| S26.01XS | Contusion of heart with hemopericardium, sequela  | Diagnosis     | ICD-10-CM |
| S26.02   | Laceration of heart with hemopericardium  | Diagnosis     | ICD-10-CM |
| S26.020  | Mild laceration of heart with hemopericardium   | Diagnosis     | ICD-10-CM |
| S26.020A | Mild laceration of heart with hemopericardium, initial encounter                                | Diagnosis     | ICD-10-CM |
| S26.020D | Mild laceration of heart with hemopericardium, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S26.020S | Mild laceration of heart with hemopericardium, sequela  | Diagnosis     | ICD-10-CM |
| S26.021  | Moderate laceration of heart with hemopericardium   | Diagnosis     | ICD-10-CM |
| S26.021A | Moderate laceration of heart with hemopericardium, initial encounter                            | Diagnosis     | ICD-10-CM |
| S26.021D | Moderate laceration of heart with hemopericardium, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S26.021S | Moderate laceration of heart with hemopericardium, sequela                                      | Diagnosis     | ICD-10-CM |
| S26.022  | Major laceration of heart with hemopericardium  | Diagnosis     | ICD-10-CM |
| S26.022A | Major laceration of heart with hemopericardium, initial encounter                               | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S26.022D | Major laceration of heart with hemopericardium, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S26.022S | Major laceration of heart with hemopericardium, sequela  | Diagnosis     | ICD-10-CM |
| S26.09   | Other injury of heart with hemopericardium   | Diagnosis     | ICD-10-CM |
| S26.09XA | Other injury of heart with hemopericardium, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S26.09XD | Other injury of heart with hemopericardium, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S26.09XS | Other injury of heart with hemopericardium, sequela  | Diagnosis     | ICD-10-CM |
| S26.1    | Injury of heart without hemopericardium  | Diagnosis     | ICD-10-CM |
| S26.10   | Unspecified injury of heart without hemopericardium  | Diagnosis     | ICD-10-CM |
| S26.10XA | Unspecified injury of heart without hemopericardium, initial encounter                         | Diagnosis     | ICD-10-CM |
| S26.10XD | Unspecified injury of heart without hemopericardium, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S26.10XS | Unspecified injury of heart without hemopericardium, sequela                                   | Diagnosis     | ICD-10-CM |
| S26.11   | Contusion of heart without hemopericardium   | Diagnosis     | ICD-10-CM |
| S26.11XA | Contusion of heart without hemopericardium, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S26.11XD | Contusion of heart without hemopericardium, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S26.11XS | Contusion of heart without hemopericardium, sequela  | Diagnosis     | ICD-10-CM |
| S26.12   | Laceration of heart without hemopericardium  | Diagnosis     | ICD-10-CM |
| S26.12XA | Laceration of heart without hemopericardium, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S26.12XD | Laceration of heart without hemopericardium, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S26.12XS | Laceration of heart without hemopericardium, sequela   | Diagnosis     | ICD-10-CM |
| S26.19   | Other injury of heart without hemopericardium  | Diagnosis     | ICD-10-CM |
| S26.19XA | Other injury of heart without hemopericardium, initial encounter                               | Diagnosis     | ICD-10-CM |
| S26.19XD | Other injury of heart without hemopericardium, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S26.19XS | Other injury of heart without hemopericardium, sequela   | Diagnosis     | ICD-10-CM |
| S26.9    | Injury of heart, unspecified with or without hemopericardium                                   | Diagnosis     | ICD-10-CM |
| S26.90   | Unspecified injury of heart, unspecified with or without hemopericardium                       | Diagnosis     | ICD-10-CM |
| S26.90XA | Unspecified injury of heart, unspecified with or without hemopericardium, initial encounter    | Diagnosis     | ICD-10-CM |
| S26.90XD | Unspecified injury of heart, unspecified with or without hemopericardium, subsequent encounter | Diagnosis     | ICD-10-CM |
| S26.90XS | Unspecified injury of heart, unspecified with or without hemopericardium, sequela              | Diagnosis     | ICD-10-CM |
| S26.91   | Contusion of heart, unspecified with or without hemopericardium                                | Diagnosis     | ICD-10-CM |
| S26.91XA | Contusion of heart, unspecified with or without hemopericardium, initial encounter             | Diagnosis     | ICD-10-CM |
| S26.91XD | Contusion of heart, unspecified with or without hemopericardium, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S26.91XS | Contusion of heart, unspecified with or without hemopericardium, sequela                       | Diagnosis     | ICD-10-CM |
| S26.92   | Laceration of heart, unspecified with or without hemopericardium                               | Diagnosis     | ICD-10-CM |
| S26.92XA | Laceration of heart, unspecified with or without hemopericardium, initial encounter            | Diagnosis     | ICD-10-CM |
| S26.92XD | Laceration of heart, unspecified with or without hemopericardium, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S26.92XS | Laceration of heart, unspecified with or without hemopericardium, sequela                      | Diagnosis     | ICD-10-CM |
| S26.99   | Other injury of heart, unspecified with or without hemopericardium                             | Diagnosis     | ICD-10-CM |
| S26.99XA | Other injury of heart, unspecified with or without hemopericardium, initial encounter          | Diagnosis     | ICD-10-CM |
| S26.99XD | Other injury of heart, unspecified with or without hemopericardium, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S26.99XS | Other injury of heart, unspecified with or without hemopericardium, sequela                    | Diagnosis     | ICD-10-CM |
| S27      | Injury of other and unspecified intrathoracic organs   | Diagnosis     | ICD-10-CM |
| S27.0    | Traumatic pneumothorax   | Diagnosis     | ICD-10-CM |
| S27.0XXA | Traumatic pneumothorax, initial encounter  | Diagnosis     | ICD-10-CM |
| S27.0XXD | Traumatic pneumothorax, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S27.0XXS | Traumatic pneumothorax, sequela  | Diagnosis     | ICD-10-CM |
| S27.1    | Traumatic hemothorax   | Diagnosis     | ICD-10-CM |
| S27.1XXA | Traumatic hemothorax, initial encounter  | Diagnosis     | ICD-10-CM |
| S27.1XXD | Traumatic hemothorax, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S27.1XXS | Traumatic hemothorax, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S27.2    | Traumatic hemopneumothorax                                      | Diagnosis     | ICD-10-CM |
| S27.2XXA | Traumatic hemopneumothorax, initial encounter                   | Diagnosis     | ICD-10-CM |
| S27.2XXD | Traumatic hemopneumothorax, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S27.2XXS | Traumatic hemopneumothorax, sequela                             | Diagnosis     | ICD-10-CM |
| S27.3    | Other and unspecified injuries of lung                          | Diagnosis     | ICD-10-CM |
| S27.30   | Unspecified injury of lung                                      | Diagnosis     | ICD-10-CM |
| S27.301  | Unspecified injury of lung, unilateral                          | Diagnosis     | ICD-10-CM |
| S27.301A | Unspecified injury of lung, unilateral, initial encounter       | Diagnosis     | ICD-10-CM |
| S27.301D | Unspecified injury of lung, unilateral, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S27.301S | Unspecified injury of lung, unilateral, sequela                 | Diagnosis     | ICD-10-CM |
| S27.302  | Unspecified injury of lung, bilateral                           | Diagnosis     | ICD-10-CM |
| S27.302A | Unspecified injury of lung, bilateral, initial encounter        | Diagnosis     | ICD-10-CM |
| S27.302D | Unspecified injury of lung, bilateral, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S27.302S | Unspecified injury of lung, bilateral, sequela                  | Diagnosis     | ICD-10-CM |
| S27.309  | Unspecified injury of lung, unspecified                         | Diagnosis     | ICD-10-CM |
| S27.309A | Unspecified injury of lung, unspecified, initial encounter      | Diagnosis     | ICD-10-CM |
| S27.309D | Unspecified injury of lung, unspecified, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S27.309S | Unspecified injury of lung, unspecified, sequela                | Diagnosis     | ICD-10-CM |
| S27.31   | Primary blast injury of lung                                    | Diagnosis     | ICD-10-CM |
| S27.311  | Primary blast injury of lung, unilateral                        | Diagnosis     | ICD-10-CM |
| S27.311A | Primary blast injury of lung, unilateral, initial encounter     | Diagnosis     | ICD-10-CM |
| S27.311D | Primary blast injury of lung, unilateral, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S27.311S | Primary blast injury of lung, unilateral, sequela               | Diagnosis     | ICD-10-CM |
| S27.312  | Primary blast injury of lung, bilateral                         | Diagnosis     | ICD-10-CM |
| S27.312A | Primary blast injury of lung, bilateral, initial encounter      | Diagnosis     | ICD-10-CM |
| S27.312D | Primary blast injury of lung, bilateral, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S27.312S | Primary blast injury of lung, bilateral, sequela                | Diagnosis     | ICD-10-CM |
| S27.319  | Primary blast injury of lung, unspecified                       | Diagnosis     | ICD-10-CM |
| S27.319A | Primary blast injury of lung, unspecified, initial encounter    | Diagnosis     | ICD-10-CM |
| S27.319D | Primary blast injury of lung, unspecified, subsequent encounter | Diagnosis     | ICD-10-CM |
| S27.319S | Primary blast injury of lung, unspecified, sequela              | Diagnosis     | ICD-10-CM |
| S27.32   | Contusion of lung   | Diagnosis     | ICD-10-CM |
| S27.321  | Contusion of lung, unilateral                                   | Diagnosis     | ICD-10-CM |
| S27.321A | Contusion of lung, unilateral, initial encounter                | Diagnosis     | ICD-10-CM |
| S27.321D | Contusion of lung, unilateral, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S27.321S | Contusion of lung, unilateral, sequela                          | Diagnosis     | ICD-10-CM |
| S27.322  | Contusion of lung, bilateral                                    | Diagnosis     | ICD-10-CM |
| S27.322A | Contusion of lung, bilateral, initial encounter                 | Diagnosis     | ICD-10-CM |
| S27.322D | Contusion of lung, bilateral, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S27.322S | Contusion of lung, bilateral, sequela                           | Diagnosis     | ICD-10-CM |
| S27.329  | Contusion of lung, unspecified                                  | Diagnosis     | ICD-10-CM |
| S27.329A | Contusion of lung, unspecified, initial encounter               | Diagnosis     | ICD-10-CM |
| S27.329D | Contusion of lung, unspecified, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S27.329S | Contusion of lung, unspecified, sequela                         | Diagnosis     | ICD-10-CM |
| S27.33   | Laceration of lung  | Diagnosis     | ICD-10-CM |
| S27.331  | Laceration of lung, unilateral                                  | Diagnosis     | ICD-10-CM |
| S27.331A | Laceration of lung, unilateral, initial encounter               | Diagnosis     | ICD-10-CM |
| S27.331D | Laceration of lung, unilateral, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S27.331S | Laceration of lung, unilateral, sequela                         | Diagnosis     | ICD-10-CM |
| S27.332  | Laceration of lung, bilateral                                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S27.332A | Laceration of lung, bilateral, initial encounter                    | Diagnosis     | ICD-10-CM |
| S27.332D | Laceration of lung, bilateral, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S27.332S | Laceration of lung, bilateral, sequela                              | Diagnosis     | ICD-10-CM |
| S27.339  | Laceration of lung, unspecified                                     | Diagnosis     | ICD-10-CM |
| S27.339A | Laceration of lung, unspecified, initial encounter                  | Diagnosis     | ICD-10-CM |
| S27.339D | Laceration of lung, unspecified, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S27.339S | Laceration of lung, unspecified, sequela                            | Diagnosis     | ICD-10-CM |
| S27.39   | Other injuries of lung  | Diagnosis     | ICD-10-CM |
| S27.391  | Other injuries of lung, unilateral                                  | Diagnosis     | ICD-10-CM |
| S27.391A | Other injuries of lung, unilateral, initial encounter               | Diagnosis     | ICD-10-CM |
| S27.391D | Other injuries of lung, unilateral, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S27.391S | Other injuries of lung, unilateral, sequela                         | Diagnosis     | ICD-10-CM |
| S27.392  | Other injuries of lung, bilateral                                   | Diagnosis     | ICD-10-CM |
| S27.392A | Other injuries of lung, bilateral, initial encounter                | Diagnosis     | ICD-10-CM |
| S27.392D | Other injuries of lung, bilateral, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S27.392S | Other injuries of lung, bilateral, sequela                          | Diagnosis     | ICD-10-CM |
| S27.399  | Other injuries of lung, unspecified                                 | Diagnosis     | ICD-10-CM |
| S27.399A | Other injuries of lung, unspecified, initial encounter              | Diagnosis     | ICD-10-CM |
| S27.399D | Other injuries of lung, unspecified, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S27.399S | Other injuries of lung, unspecified, sequela                        | Diagnosis     | ICD-10-CM |
| S27.4    | Injury of bronchus  | Diagnosis     | ICD-10-CM |
| S27.40   | Unspecified injury of bronchus                                      | Diagnosis     | ICD-10-CM |
| S27.401  | Unspecified injury of bronchus, unilateral                          | Diagnosis     | ICD-10-CM |
| S27.401A | Unspecified injury of bronchus, unilateral, initial encounter       | Diagnosis     | ICD-10-CM |
| S27.401D | Unspecified injury of bronchus, unilateral, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S27.401S | Unspecified injury of bronchus, unilateral, sequela                 | Diagnosis     | ICD-10-CM |
| S27.402  | Unspecified injury of bronchus, bilateral                           | Diagnosis     | ICD-10-CM |
| S27.402A | Unspecified injury of bronchus, bilateral, initial encounter        | Diagnosis     | ICD-10-CM |
| S27.402D | Unspecified injury of bronchus, bilateral, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S27.402S | Unspecified injury of bronchus, bilateral, sequela                  | Diagnosis     | ICD-10-CM |
| S27.409  | Unspecified injury of bronchus, unspecified                         | Diagnosis     | ICD-10-CM |
| S27.409A | Unspecified injury of bronchus, unspecified, initial encounter      | Diagnosis     | ICD-10-CM |
| S27.409D | Unspecified injury of bronchus, unspecified, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S27.409S | Unspecified injury of bronchus, unspecified, sequela                | Diagnosis     | ICD-10-CM |
| S27.41   | Primary blast injury of bronchus                                    | Diagnosis     | ICD-10-CM |
| S27.411  | Primary blast injury of bronchus, unilateral                        | Diagnosis     | ICD-10-CM |
| S27.411A | Primary blast injury of bronchus, unilateral, initial encounter     | Diagnosis     | ICD-10-CM |
| S27.411D | Primary blast injury of bronchus, unilateral, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S27.411S | Primary blast injury of bronchus, unilateral, sequela               | Diagnosis     | ICD-10-CM |
| S27.412  | Primary blast injury of bronchus, bilateral                         | Diagnosis     | ICD-10-CM |
| S27.412A | Primary blast injury of bronchus, bilateral, initial encounter      | Diagnosis     | ICD-10-CM |
| S27.412D | Primary blast injury of bronchus, bilateral, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S27.412S | Primary blast injury of bronchus, bilateral, sequela                | Diagnosis     | ICD-10-CM |
| S27.419  | Primary blast injury of bronchus, unspecified                       | Diagnosis     | ICD-10-CM |
| S27.419A | Primary blast injury of bronchus, unspecified, initial encounter    | Diagnosis     | ICD-10-CM |
| S27.419D | Primary blast injury of bronchus, unspecified, subsequent encounter | Diagnosis     | ICD-10-CM |
| S27.419S | Primary blast injury of bronchus, unspecified, sequela              | Diagnosis     | ICD-10-CM |
| S27.42   | Contusion of bronchus   | Diagnosis     | ICD-10-CM |
| S27.421  | Contusion of bronchus, unilateral                                   | Diagnosis     | ICD-10-CM |
| S27.421A | Contusion of bronchus, unilateral, initial encounter                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S27.421D | Contusion of bronchus, unilateral, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S27.421S | Contusion of bronchus, unilateral, sequela                     | Diagnosis     | ICD-10-CM |
| S27.422  | Contusion of bronchus, bilateral                               | Diagnosis     | ICD-10-CM |
| S27.422A | Contusion of bronchus, bilateral, initial encounter            | Diagnosis     | ICD-10-CM |
| S27.422D | Contusion of bronchus, bilateral, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S27.422S | Contusion of bronchus, bilateral, sequela                      | Diagnosis     | ICD-10-CM |
| S27.429  | Contusion of bronchus, unspecified                             | Diagnosis     | ICD-10-CM |
| S27.429A | Contusion of bronchus, unspecified, initial encounter          | Diagnosis     | ICD-10-CM |
| S27.429D | Contusion of bronchus, unspecified, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S27.429S | Contusion of bronchus, unspecified, sequela                    | Diagnosis     | ICD-10-CM |
| S27.43   | Laceration of bronchus   | Diagnosis     | ICD-10-CM |
| S27.431  | Laceration of bronchus, unilateral                             | Diagnosis     | ICD-10-CM |
| S27.431A | Laceration of bronchus, unilateral, initial encounter          | Diagnosis     | ICD-10-CM |
| S27.431D | Laceration of bronchus, unilateral, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S27.431S | Laceration of bronchus, unilateral, sequela                    | Diagnosis     | ICD-10-CM |
| S27.432  | Laceration of bronchus, bilateral                              | Diagnosis     | ICD-10-CM |
| S27.432A | Laceration of bronchus, bilateral, initial encounter           | Diagnosis     | ICD-10-CM |
| S27.432D | Laceration of bronchus, bilateral, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S27.432S | Laceration of bronchus, bilateral, sequela                     | Diagnosis     | ICD-10-CM |
| S27.439  | Laceration of bronchus, unspecified                            | Diagnosis     | ICD-10-CM |
| S27.439A | Laceration of bronchus, unspecified, initial encounter         | Diagnosis     | ICD-10-CM |
| S27.439D | Laceration of bronchus, unspecified, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S27.439S | Laceration of bronchus, unspecified, sequela                   | Diagnosis     | ICD-10-CM |
| S27.49   | Other injury of bronchus                                       | Diagnosis     | ICD-10-CM |
| S27.491  | Other injury of bronchus, unilateral                           | Diagnosis     | ICD-10-CM |
| S27.491A | Other injury of bronchus, unilateral, initial encounter        | Diagnosis     | ICD-10-CM |
| S27.491D | Other injury of bronchus, unilateral, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S27.491S | Other injury of bronchus, unilateral, sequela                  | Diagnosis     | ICD-10-CM |
| S27.492  | Other injury of bronchus, bilateral                            | Diagnosis     | ICD-10-CM |
| S27.492A | Other injury of bronchus, bilateral, initial encounter         | Diagnosis     | ICD-10-CM |
| S27.492D | Other injury of bronchus, bilateral, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S27.492S | Other injury of bronchus, bilateral, sequela                   | Diagnosis     | ICD-10-CM |
| S27.499  | Other injury of bronchus, unspecified                          | Diagnosis     | ICD-10-CM |
| S27.499A | Other injury of bronchus, unspecified, initial encounter       | Diagnosis     | ICD-10-CM |
| S27.499D | Other injury of bronchus, unspecified, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S27.499S | Other injury of bronchus, unspecified, sequela                 | Diagnosis     | ICD-10-CM |
| S27.5    | Injury of thoracic trachea                                     | Diagnosis     | ICD-10-CM |
| S27.50   | Unspecified injury of thoracic trachea                         | Diagnosis     | ICD-10-CM |
| S27.50XA | Unspecified injury of thoracic trachea, initial encounter      | Diagnosis     | ICD-10-CM |
| S27.50XD | Unspecified injury of thoracic trachea, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S27.50XS | Unspecified injury of thoracic trachea, sequela                | Diagnosis     | ICD-10-CM |
| S27.51   | Primary blast injury of thoracic trachea                       | Diagnosis     | ICD-10-CM |
| S27.51XA | Primary blast injury of thoracic trachea, initial encounter    | Diagnosis     | ICD-10-CM |
| S27.51XD | Primary blast injury of thoracic trachea, subsequent encounter | Diagnosis     | ICD-10-CM |
| S27.51XS | Primary blast injury of thoracic trachea, sequela              | Diagnosis     | ICD-10-CM |
| S27.52   | Contusion of thoracic trachea                                  | Diagnosis     | ICD-10-CM |
| S27.52XA | Contusion of thoracic trachea, initial encounter               | Diagnosis     | ICD-10-CM |
| S27.52XD | Contusion of thoracic trachea, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S27.52XS | Contusion of thoracic trachea, sequela                         | Diagnosis     | ICD-10-CM |
| S27.53   | Laceration of thoracic trachea                                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S27.53XA | Laceration of thoracic trachea, initial encounter               | Diagnosis     | ICD-10-CM |
| S27.53XD | Laceration of thoracic trachea, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S27.53XS | Laceration of thoracic trachea, sequela                         | Diagnosis     | ICD-10-CM |
| S27.59   | Other injury of thoracic trachea                                | Diagnosis     | ICD-10-CM |
| S27.59XA | Other injury of thoracic trachea, initial encounter             | Diagnosis     | ICD-10-CM |
| S27.59XD | Other injury of thoracic trachea, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S27.59XS | Other injury of thoracic trachea, sequela                       | Diagnosis     | ICD-10-CM |
| S27.6    | Injury of pleura  | Diagnosis     | ICD-10-CM |
| S27.60   | Unspecified injury of pleura                                    | Diagnosis     | ICD-10-CM |
| S27.60XA | Unspecified injury of pleura, initial encounter                 | Diagnosis     | ICD-10-CM |
| S27.60XD | Unspecified injury of pleura, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S27.60XS | Unspecified injury of pleura, sequela                           | Diagnosis     | ICD-10-CM |
| S27.63   | Laceration of pleura  | Diagnosis     | ICD-10-CM |
| S27.63XA | Laceration of pleura, initial encounter                         | Diagnosis     | ICD-10-CM |
| S27.63XD | Laceration of pleura, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S27.63XS | Laceration of pleura, sequela                                   | Diagnosis     | ICD-10-CM |
| S27.69   | Other injury of pleura  | Diagnosis     | ICD-10-CM |
| S27.69XA | Other injury of pleura, initial encounter                       | Diagnosis     | ICD-10-CM |
| S27.69XD | Other injury of pleura, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S27.69XS | Other injury of pleura, sequela                                 | Diagnosis     | ICD-10-CM |
| S27.8    | Injury of other specified intrathoracic organs                  | Diagnosis     | ICD-10-CM |
| S27.80   | Injury of diaphragm   | Diagnosis     | ICD-10-CM |
| S27.802  | Contusion of diaphragm  | Diagnosis     | ICD-10-CM |
| S27.802A | Contusion of diaphragm, initial encounter                       | Diagnosis     | ICD-10-CM |
| S27.802D | Contusion of diaphragm, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S27.802S | Contusion of diaphragm, sequela                                 | Diagnosis     | ICD-10-CM |
| S27.803  | Laceration of diaphragm   | Diagnosis     | ICD-10-CM |
| S27.803A | Laceration of diaphragm, initial encounter                      | Diagnosis     | ICD-10-CM |
| S27.803D | Laceration of diaphragm, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S27.803S | Laceration of diaphragm, sequela                                | Diagnosis     | ICD-10-CM |
| S27.808  | Other injury of diaphragm                                       | Diagnosis     | ICD-10-CM |
| S27.808A | Other injury of diaphragm, initial encounter                    | Diagnosis     | ICD-10-CM |
| S27.808D | Other injury of diaphragm, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S27.808S | Other injury of diaphragm, sequela                              | Diagnosis     | ICD-10-CM |
| S27.809  | Unspecified injury of diaphragm                                 | Diagnosis     | ICD-10-CM |
| S27.809A | Unspecified injury of diaphragm, initial encounter              | Diagnosis     | ICD-10-CM |
| S27.809D | Unspecified injury of diaphragm, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S27.809S | Unspecified injury of diaphragm, sequela                        | Diagnosis     | ICD-10-CM |
| S27.81   | Injury of esophagus (thoracic part)                             | Diagnosis     | ICD-10-CM |
| S27.812  | Contusion of esophagus (thoracic part)                          | Diagnosis     | ICD-10-CM |
| S27.812A | Contusion of esophagus (thoracic part), initial encounter       | Diagnosis     | ICD-10-CM |
| S27.812D | Contusion of esophagus (thoracic part), subsequent encounter    | Diagnosis     | ICD-10-CM |
| S27.812S | Contusion of esophagus (thoracic part), sequela                 | Diagnosis     | ICD-10-CM |
| S27.813  | Laceration of esophagus (thoracic part)                         | Diagnosis     | ICD-10-CM |
| S27.813A | Laceration of esophagus (thoracic part), initial encounter      | Diagnosis     | ICD-10-CM |
| S27.813D | Laceration of esophagus (thoracic part), subsequent encounter   | Diagnosis     | ICD-10-CM |
| S27.813S | Laceration of esophagus (thoracic part), sequela                | Diagnosis     | ICD-10-CM |
| S27.818  | Other injury of esophagus (thoracic part)                       | Diagnosis     | ICD-10-CM |
| S27.818A | Other injury of esophagus (thoracic part), initial encounter    | Diagnosis     | ICD-10-CM |
| S27.818D | Other injury of esophagus (thoracic part), subsequent encounter | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S27.818S | Other injury of esophagus (thoracic part), sequela                                    | Diagnosis     | ICD-10-CM |
| S27.819  | Unspecified injury of esophagus (thoracic part)                                       | Diagnosis     | ICD-10-CM |
| S27.819A | Unspecified injury of esophagus (thoracic part), initial encounter                    | Diagnosis     | ICD-10-CM |
| S27.819D | Unspecified injury of esophagus (thoracic part), subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S27.819S | Unspecified injury of esophagus (thoracic part), sequela                              | Diagnosis     | ICD-10-CM |
| S27.89   | Injury of other specified intrathoracic organs  | Diagnosis     | ICD-10-CM |
| S27.892  | Contusion of other specified intrathoracic organs                                     | Diagnosis     | ICD-10-CM |
| S27.892A | Contusion of other specified intrathoracic organs, initial encounter                  | Diagnosis     | ICD-10-CM |
| S27.892D | Contusion of other specified intrathoracic organs, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S27.892S | Contusion of other specified intrathoracic organs, sequela                            | Diagnosis     | ICD-10-CM |
| S27.893  | Laceration of other specified intrathoracic organs                                    | Diagnosis     | ICD-10-CM |
| S27.893A | Laceration of other specified intrathoracic organs, initial encounter                 | Diagnosis     | ICD-10-CM |
| S27.893D | Laceration of other specified intrathoracic organs, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S27.893S | Laceration of other specified intrathoracic organs, sequela                           | Diagnosis     | ICD-10-CM |
| S27.898  | Other injury of other specified intrathoracic organs                                  | Diagnosis     | ICD-10-CM |
| S27.898A | Other injury of other specified intrathoracic organs, initial encounter               | Diagnosis     | ICD-10-CM |
| S27.898D | Other injury of other specified intrathoracic organs, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S27.898S | Other injury of other specified intrathoracic organs, sequela                         | Diagnosis     | ICD-10-CM |
| S27.899  | Unspecified injury of other specified intrathoracic organs                            | Diagnosis     | ICD-10-CM |
| S27.899A | Unspecified injury of other specified intrathoracic organs, initial encounter         | Diagnosis     | ICD-10-CM |
| S27.899D | Unspecified injury of other specified intrathoracic organs, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S27.899S | Unspecified injury of other specified intrathoracic organs, sequela                   | Diagnosis     | ICD-10-CM |
| S27.9    | Injury of unspecified intrathoracic organ   | Diagnosis     | ICD-10-CM |
| S27.9XXA | Injury of unspecified intrathoracic organ, initial encounter                          | Diagnosis     | ICD-10-CM |
| S27.9XXD | Injury of unspecified intrathoracic organ, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S27.9XXS | Injury of unspecified intrathoracic organ, sequela                                    | Diagnosis     | ICD-10-CM |
| S28      | Crushing injury of thorax, and traumatic amputation of part of thorax                 | Diagnosis     | ICD-10-CM |
| S28.0    | Crushed chest   | Diagnosis     | ICD-10-CM |
| S28.0XXA | Crushed chest, initial encounter  | Diagnosis     | ICD-10-CM |
| S28.0XXD | Crushed chest, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S28.0XXS | Crushed chest, sequela  | Diagnosis     | ICD-10-CM |
| S28.1    | Traumatic amputation (partial) of part of thorax, except breast                       | Diagnosis     | ICD-10-CM |
| S28.1XXA | Traumatic amputation (partial) of part of thorax, except breast, initial encounter    | Diagnosis     | ICD-10-CM |
| S28.1XXD | Traumatic amputation (partial) of part of thorax, except breast, subsequent encounter | Diagnosis     | ICD-10-CM |
| S28.1XXS | Traumatic amputation (partial) of part of thorax, except breast, sequela              | Diagnosis     | ICD-10-CM |
| S28.2    | Traumatic amputation of breast  | Diagnosis     | ICD-10-CM |
| S28.21   | Complete traumatic amputation of breast   | Diagnosis     | ICD-10-CM |
| S28.211  | Complete traumatic amputation of right breast   | Diagnosis     | ICD-10-CM |
| S28.211A | Complete traumatic amputation of right breast, initial encounter                      | Diagnosis     | ICD-10-CM |
| S28.211D | Complete traumatic amputation of right breast, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S28.211S | Complete traumatic amputation of right breast, sequela                                | Diagnosis     | ICD-10-CM |
| S28.212  | Complete traumatic amputation of left breast  | Diagnosis     | ICD-10-CM |
| S28.212A | Complete traumatic amputation of left breast, initial encounter                       | Diagnosis     | ICD-10-CM |
| S28.212D | Complete traumatic amputation of left breast, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S28.212S | Complete traumatic amputation of left breast, sequela                                 | Diagnosis     | ICD-10-CM |
| S28.219  | Complete traumatic amputation of unspecified breast                                   | Diagnosis     | ICD-10-CM |
| S28.219A | Complete traumatic amputation of unspecified breast, initial encounter                | Diagnosis     | ICD-10-CM |
| S28.219D | Complete traumatic amputation of unspecified breast, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S28.219S | Complete traumatic amputation of unspecified breast, sequela                          | Diagnosis     | ICD-10-CM |
| S28.22   | Partial traumatic amputation of breast  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S28.221  | Partial traumatic amputation of right breast  | Diagnosis     | ICD-10-CM |
| S28.221A | Partial traumatic amputation of right breast, initial encounter                             | Diagnosis     | ICD-10-CM |
| S28.221D | Partial traumatic amputation of right breast, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S28.221S | Partial traumatic amputation of right breast, sequela                                       | Diagnosis     | ICD-10-CM |
| S28.222  | Partial traumatic amputation of left breast   | Diagnosis     | ICD-10-CM |
| S28.222A | Partial traumatic amputation of left breast, initial encounter                              | Diagnosis     | ICD-10-CM |
| S28.222D | Partial traumatic amputation of left breast, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S28.222S | Partial traumatic amputation of left breast, sequela  | Diagnosis     | ICD-10-CM |
| S28.229  | Partial traumatic amputation of unspecified breast  | Diagnosis     | ICD-10-CM |
| S28.229A | Partial traumatic amputation of unspecified breast, initial encounter                       | Diagnosis     | ICD-10-CM |
| S28.229D | Partial traumatic amputation of unspecified breast, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S28.229S | Partial traumatic amputation of unspecified breast, sequela                                 | Diagnosis     | ICD-10-CM |
| S29      | Other and unspecified injuries of thorax  | Diagnosis     | ICD-10-CM |
| S29.0    | Injury of muscle and tendon at thorax level   | Diagnosis     | ICD-10-CM |
| S29.00   | Unspecified injury of muscle and tendon of thorax   | Diagnosis     | ICD-10-CM |
| S29.001  | Unspecified injury of muscle and tendon of front wall of thorax                             | Diagnosis     | ICD-10-CM |
| S29.001A | Unspecified injury of muscle and tendon of front wall of thorax, initial encounter          | Diagnosis     | ICD-10-CM |
| S29.001D | Unspecified injury of muscle and tendon of front wall of thorax, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S29.001S | Unspecified injury of muscle and tendon of front wall of thorax, sequela                    | Diagnosis     | ICD-10-CM |
| S29.002  | Unspecified injury of muscle and tendon of back wall of thorax                              | Diagnosis     | ICD-10-CM |
| S29.002A | Unspecified injury of muscle and tendon of back wall of thorax, initial encounter           | Diagnosis     | ICD-10-CM |
| S29.002D | Unspecified injury of muscle and tendon of back wall of thorax, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S29.002S | Unspecified injury of muscle and tendon of back wall of thorax, sequela                     | Diagnosis     | ICD-10-CM |
| S29.009  | Unspecified injury of muscle and tendon of unspecified wall of thorax                       | Diagnosis     | ICD-10-CM |
| S29.009A | Unspecified injury of muscle and tendon of unspecified wall of thorax, initial encounter    | Diagnosis     | ICD-10-CM |
| S29.009D | Unspecified injury of muscle and tendon of unspecified wall of thorax, subsequent encounter | Diagnosis     | ICD-10-CM |
| S29.009S | Unspecified injury of muscle and tendon of unspecified wall of thorax, sequela              | Diagnosis     | ICD-10-CM |
| S29.01   | Strain of muscle and tendon of thorax   | Diagnosis     | ICD-10-CM |
| S29.011  | Strain of muscle and tendon of front wall of thorax   | Diagnosis     | ICD-10-CM |
| S29.011A | Strain of muscle and tendon of front wall of thorax, initial encounter                      | Diagnosis     | ICD-10-CM |
| S29.011D | Strain of muscle and tendon of front wall of thorax, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S29.011S | Strain of muscle and tendon of front wall of thorax, sequela                                | Diagnosis     | ICD-10-CM |
| S29.012  | Strain of muscle and tendon of back wall of thorax  | Diagnosis     | ICD-10-CM |
| S29.012A | Strain of muscle and tendon of back wall of thorax, initial encounter                       | Diagnosis     | ICD-10-CM |
| S29.012D | Strain of muscle and tendon of back wall of thorax, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S29.012S | Strain of muscle and tendon of back wall of thorax, sequela                                 | Diagnosis     | ICD-10-CM |
| S29.019  | Strain of muscle and tendon of unspecified wall of thorax                                   | Diagnosis     | ICD-10-CM |
| S29.019A | Strain of muscle and tendon of unspecified wall of thorax, initial encounter                | Diagnosis     | ICD-10-CM |
| S29.019D | Strain of muscle and tendon of unspecified wall of thorax, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S29.019S | Strain of muscle and tendon of unspecified wall of thorax, sequela                          | Diagnosis     | ICD-10-CM |
| S29.02   | Laceration of muscle and tendon of thorax   | Diagnosis     | ICD-10-CM |
| S29.021  | Laceration of muscle and tendon of front wall of thorax                                     | Diagnosis     | ICD-10-CM |
| S29.021A | Laceration of muscle and tendon of front wall of thorax, initial encounter                  | Diagnosis     | ICD-10-CM |
| S29.021D | Laceration of muscle and tendon of front wall of thorax, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S29.021S | Laceration of muscle and tendon of front wall of thorax, sequela                            | Diagnosis     | ICD-10-CM |
| S29.022  | Laceration of muscle and tendon of back wall of thorax                                      | Diagnosis     | ICD-10-CM |
| S29.022A | Laceration of muscle and tendon of back wall of thorax, initial encounter                   | Diagnosis     | ICD-10-CM |
| S29.022D | Laceration of muscle and tendon of back wall of thorax, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S29.022S | Laceration of muscle and tendon of back wall of thorax, sequela                             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S29.029  | Laceration of muscle and tendon of unspecified wall of thorax                         | Diagnosis     | ICD-10-CM |
| S29.029A | Laceration of muscle and tendon of unspecified wall of thorax, initial encounter      | Diagnosis     | ICD-10-CM |
| S29.029D | Laceration of muscle and tendon of unspecified wall of thorax, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S29.029S | Laceration of muscle and tendon of unspecified wall of thorax, sequela                | Diagnosis     | ICD-10-CM |
| S29.09   | Other injury of muscle and tendon of thorax   | Diagnosis     | ICD-10-CM |
| S29.091  | Other injury of muscle and tendon of front wall of thorax                             | Diagnosis     | ICD-10-CM |
| S29.091A | Other injury of muscle and tendon of front wall of thorax, initial encounter          | Diagnosis     | ICD-10-CM |
| S29.091D | Other injury of muscle and tendon of front wall of thorax, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S29.091S | Other injury of muscle and tendon of front wall of thorax, sequela                    | Diagnosis     | ICD-10-CM |
| S29.092  | Other injury of muscle and tendon of back wall of thorax                              | Diagnosis     | ICD-10-CM |
| S29.092A | Other injury of muscle and tendon of back wall of thorax, initial encounter           | Diagnosis     | ICD-10-CM |
| S29.092D | Other injury of muscle and tendon of back wall of thorax, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S29.092S | Other injury of muscle and tendon of back wall of thorax, sequela                     | Diagnosis     | ICD-10-CM |
| S29.099  | Other injury of muscle and tendon of unspecified wall of thorax                       | Diagnosis     | ICD-10-CM |
| S29.099A | Other injury of muscle and tendon of unspecified wall of thorax, initial encounter    | Diagnosis     | ICD-10-CM |
| S29.099D | Other injury of muscle and tendon of unspecified wall of thorax, subsequent encounter | Diagnosis     | ICD-10-CM |
| S29.099S | Other injury of muscle and tendon of unspecified wall of thorax, sequela              | Diagnosis     | ICD-10-CM |
| S29.8    | Other specified injuries of thorax  | Diagnosis     | ICD-10-CM |
| S29.8XXA | Other specified injuries of thorax, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S29.8XXD | Other specified injuries of thorax, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S29.8XXS | Other specified injuries of thorax, sequela   | Diagnosis     | ICD-10-CM |
| S29.9    | Unspecified injury of thorax  | Diagnosis     | ICD-10-CM |
| S29.9XXA | Unspecified injury of thorax, initial encounter                                       | Diagnosis     | ICD-10-CM |
| S29.9XXD | Unspecified injury of thorax, subsequent encounter                                    | Diagnosis     | ICD-10-CM |
| S29.9XXS | Unspecified injury of thorax, sequela   | Diagnosis     | ICD-10-CM |
| S30      | Superficial injury of abdomen, lower back, pelvis and external genitals               | Diagnosis     | ICD-10-CM |
| S30.0    | Contusion of lower back and pelvis  | Diagnosis     | ICD-10-CM |
| S30.0XXA | Contusion of lower back and pelvis, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S30.0XXD | Contusion of lower back and pelvis, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S30.0XXS | Contusion of lower back and pelvis, sequela   | Diagnosis     | ICD-10-CM |
| S30.1    | Contusion of abdominal wall   | Diagnosis     | ICD-10-CM |
| S30.1XXA | Contusion of abdominal wall, initial encounter  | Diagnosis     | ICD-10-CM |
| S30.1XXD | Contusion of abdominal wall, subsequent encounter                                     | Diagnosis     | ICD-10-CM |
| S30.1XXS | Contusion of abdominal wall, sequela  | Diagnosis     | ICD-10-CM |
| S30.2    | Contusion of external genital organs  | Diagnosis     | ICD-10-CM |
| S30.20   | Contusion of unspecified external genital organ                                       | Diagnosis     | ICD-10-CM |
| S30.201  | Contusion of unspecified external genital organ, male                                 | Diagnosis     | ICD-10-CM |
| S30.201A | Contusion of unspecified external genital organ, male, initial encounter              | Diagnosis     | ICD-10-CM |
| S30.201D | Contusion of unspecified external genital organ, male, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S30.201S | Contusion of unspecified external genital organ, male, sequela                        | Diagnosis     | ICD-10-CM |
| S30.202  | Contusion of unspecified external genital organ, female                               | Diagnosis     | ICD-10-CM |
| S30.202A | Contusion of unspecified external genital organ, female, initial encounter            | Diagnosis     | ICD-10-CM |
| S30.202D | Contusion of unspecified external genital organ, female, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S30.202S | Contusion of unspecified external genital organ, female, sequela                      | Diagnosis     | ICD-10-CM |
| S30.21   | Contusion of penis  | Diagnosis     | ICD-10-CM |
| S30.21XA | Contusion of penis, initial encounter   | Diagnosis     | ICD-10-CM |
| S30.21XD | Contusion of penis, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S30.21XS | Contusion of penis, sequela   | Diagnosis     | ICD-10-CM |
| S30.22   | Contusion of scrotum and testes   | Diagnosis     | ICD-10-CM |
| S30.22XA | Contusion of scrotum and testes, initial encounter                                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S30.22XD | Contusion of scrotum and testes, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S30.22XS | Contusion of scrotum and testes, sequela  | Diagnosis     | ICD-10-CM |
| S30.23   | Contusion of vagina and vulva   | Diagnosis     | ICD-10-CM |
| S30.23XA | Contusion of vagina and vulva, initial encounter                                | Diagnosis     | ICD-10-CM |
| S30.23XD | Contusion of vagina and vulva, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S30.23XS | Contusion of vagina and vulva, sequela  | Diagnosis     | ICD-10-CM |
| S30.3    | Contusion of anus   | Diagnosis     | ICD-10-CM |
| S30.3XXA | Contusion of anus, initial encounter  | Diagnosis     | ICD-10-CM |
| S30.3XXD | Contusion of anus, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S30.3XXS | Contusion of anus, sequela  | Diagnosis     | ICD-10-CM |
| S30.8    | Other superficial injuries of abdomen, lower back, pelvis and external genitals | Diagnosis     | ICD-10-CM |
| S30.81   | Abrasion of abdomen, lower back, pelvis and external genitals                   | Diagnosis     | ICD-10-CM |
| S30.810  | Abrasion of lower back and pelvis   | Diagnosis     | ICD-10-CM |
| S30.810A | Abrasion of lower back and pelvis, initial encounter                            | Diagnosis     | ICD-10-CM |
| S30.810D | Abrasion of lower back and pelvis, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S30.810S | Abrasion of lower back and pelvis, sequela                                      | Diagnosis     | ICD-10-CM |
| S30.811  | Abrasion of abdominal wall  | Diagnosis     | ICD-10-CM |
| S30.811A | Abrasion of abdominal wall, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S30.811D | Abrasion of abdominal wall, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S30.811S | Abrasion of abdominal wall, sequela   | Diagnosis     | ICD-10-CM |
| S30.812  | Abrasion of penis   | Diagnosis     | ICD-10-CM |
| S30.812A | Abrasion of penis, initial encounter  | Diagnosis     | ICD-10-CM |
| S30.812D | Abrasion of penis, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S30.812S | Abrasion of penis, sequela  | Diagnosis     | ICD-10-CM |
| S30.813  | Abrasion of scrotum and testes  | Diagnosis     | ICD-10-CM |
| S30.813A | Abrasion of scrotum and testes, initial encounter                               | Diagnosis     | ICD-10-CM |
| S30.813D | Abrasion of scrotum and testes, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S30.813S | Abrasion of scrotum and testes, sequela   | Diagnosis     | ICD-10-CM |
| S30.814  | Abrasion of vagina and vulva  | Diagnosis     | ICD-10-CM |
| S30.814A | Abrasion of vagina and vulva, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S30.814D | Abrasion of vagina and vulva, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S30.814S | Abrasion of vagina and vulva, sequela   | Diagnosis     | ICD-10-CM |
| S30.815  | Abrasion of unspecified external genital organs, male                           | Diagnosis     | ICD-10-CM |
| S30.815A | Abrasion of unspecified external genital organs, male, initial encounter        | Diagnosis     | ICD-10-CM |
| S30.815D | Abrasion of unspecified external genital organs, male, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S30.815S | Abrasion of unspecified external genital organs, male, sequela                  | Diagnosis     | ICD-10-CM |
| S30.816  | Abrasion of unspecified external genital organs, female                         | Diagnosis     | ICD-10-CM |
| S30.816A | Abrasion of unspecified external genital organs, female, initial encounter      | Diagnosis     | ICD-10-CM |
| S30.816D | Abrasion of unspecified external genital organs, female, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S30.816S | Abrasion of unspecified external genital organs, female, sequela                | Diagnosis     | ICD-10-CM |
| S30.817  | Abrasion of anus  | Diagnosis     | ICD-10-CM |
| S30.817A | Abrasion of anus, initial encounter   | Diagnosis     | ICD-10-CM |
| S30.817D | Abrasion of anus, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S30.817S | Abrasion of anus, sequela   | Diagnosis     | ICD-10-CM |
| S30.82   | Blister (nonthermal) of abdomen, lower back, pelvis and external genitals       | Diagnosis     | ICD-10-CM |
| S30.820  | Blister (nonthermal) of lower back and pelvis                                   | Diagnosis     | ICD-10-CM |
| S30.820A | Blister (nonthermal) of lower back and pelvis, initial encounter                | Diagnosis     | ICD-10-CM |
| S30.820D | Blister (nonthermal) of lower back and pelvis, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S30.820S | Blister (nonthermal) of lower back and pelvis, sequela                          | Diagnosis     | ICD-10-CM |
| S30.821  | Blister (nonthermal) of abdominal wall  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S30.821A | Blister (nonthermal) of abdominal wall, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S30.821D | Blister (nonthermal) of abdominal wall, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S30.821S | Blister (nonthermal) of abdominal wall, sequela   | Diagnosis     | ICD-10-CM |
| S30.822  | Blister (nonthermal) of penis   | Diagnosis     | ICD-10-CM |
| S30.822A | Blister (nonthermal) of penis, initial encounter  | Diagnosis     | ICD-10-CM |
| S30.822D | Blister (nonthermal) of penis, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S30.822S | Blister (nonthermal) of penis, sequela  | Diagnosis     | ICD-10-CM |
| S30.823  | Blister (nonthermal) of scrotum and testes  | Diagnosis     | ICD-10-CM |
| S30.823A | Blister (nonthermal) of scrotum and testes, initial encounter                             | Diagnosis     | ICD-10-CM |
| S30.823D | Blister (nonthermal) of scrotum and testes, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S30.823S | Blister (nonthermal) of scrotum and testes, sequela                                       | Diagnosis     | ICD-10-CM |
| S30.824  | Blister (nonthermal) of vagina and vulva  | Diagnosis     | ICD-10-CM |
| S30.824A | Blister (nonthermal) of vagina and vulva, initial encounter                               | Diagnosis     | ICD-10-CM |
| S30.824D | Blister (nonthermal) of vagina and vulva, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S30.824S | Blister (nonthermal) of vagina and vulva, sequela   | Diagnosis     | ICD-10-CM |
| S30.825  | Blister (nonthermal) of unspecified external genital organs, male                         | Diagnosis     | ICD-10-CM |
| S30.825A | Blister (nonthermal) of unspecified external genital organs, male, initial encounter      | Diagnosis     | ICD-10-CM |
| S30.825D | Blister (nonthermal) of unspecified external genital organs, male, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S30.825S | Blister (nonthermal) of unspecified external genital organs, male, sequela                | Diagnosis     | ICD-10-CM |
| S30.826  | Blister (nonthermal) of unspecified external genital organs, female                       | Diagnosis     | ICD-10-CM |
| S30.826A | Blister (nonthermal) of unspecified external genital organs, female, initial encounter    | Diagnosis     | ICD-10-CM |
| S30.826D | Blister (nonthermal) of unspecified external genital organs, female, subsequent encounter | Diagnosis     | ICD-10-CM |
| S30.826S | Blister (nonthermal) of unspecified external genital organs, female, sequela              | Diagnosis     | ICD-10-CM |
| S30.827  | Blister (nonthermal) of anus  | Diagnosis     | ICD-10-CM |
| S30.827A | Blister (nonthermal) of anus, initial encounter   | Diagnosis     | ICD-10-CM |
| S30.827D | Blister (nonthermal) of anus, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S30.827S | Blister (nonthermal) of anus, sequela   | Diagnosis     | ICD-10-CM |
| S30.84   | External constriction of abdomen, lower back, pelvis and external genitals                | Diagnosis     | ICD-10-CM |
| S30.840  | External constriction of lower back and pelvis  | Diagnosis     | ICD-10-CM |
| S30.840A | External constriction of lower back and pelvis, initial encounter                         | Diagnosis     | ICD-10-CM |
| S30.840D | External constriction of lower back and pelvis, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S30.840S | External constriction of lower back and pelvis, sequela                                   | Diagnosis     | ICD-10-CM |
| S30.841  | External constriction of abdominal wall   | Diagnosis     | ICD-10-CM |
| S30.841A | External constriction of abdominal wall, initial encounter                                | Diagnosis     | ICD-10-CM |
| S30.841D | External constriction of abdominal wall, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S30.841S | External constriction of abdominal wall, sequela  | Diagnosis     | ICD-10-CM |
| S30.842  | External constriction of penis  | Diagnosis     | ICD-10-CM |
| S30.842A | External constriction of penis, initial encounter   | Diagnosis     | ICD-10-CM |
| S30.842D | External constriction of penis, subsequent encounter                                      | Diagnosis     | ICD-10-CM |
| S30.842S | External constriction of penis, sequela   | Diagnosis     | ICD-10-CM |
| S30.843  | External constriction of scrotum and testes   | Diagnosis     | ICD-10-CM |
| S30.843A | External constriction of scrotum and testes, initial encounter                            | Diagnosis     | ICD-10-CM |
| S30.843D | External constriction of scrotum and testes, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S30.843S | External constriction of scrotum and testes, sequela                                      | Diagnosis     | ICD-10-CM |
| S30.844  | External constriction of vagina and vulva   | Diagnosis     | ICD-10-CM |
| S30.844A | External constriction of vagina and vulva, initial encounter                              | Diagnosis     | ICD-10-CM |
| S30.844D | External constriction of vagina and vulva, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S30.844S | External constriction of vagina and vulva, sequela  | Diagnosis     | ICD-10-CM |
| S30.845  | External constriction of unspecified external genital organs, male                        | Diagnosis     | ICD-10-CM |
| S30.845A | External constriction of unspecified external genital organs, male, initial encounter     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S30.845D | External constriction of unspecified external genital organs, male, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S30.845S | External constriction of unspecified external genital organs, male, sequela                   | Diagnosis     | ICD-10-CM |
| S30.846  | External constriction of unspecified external genital organs, female                          | Diagnosis     | ICD-10-CM |
| S30.846A | External constriction of unspecified external genital organs, female, initial encounter       | Diagnosis     | ICD-10-CM |
| S30.846D | External constriction of unspecified external genital organs, female, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S30.846S | External constriction of unspecified external genital organs, female, sequela                 | Diagnosis     | ICD-10-CM |
| S30.85   | Superficial foreign body of abdomen, lower back, pelvis and external genitals                 | Diagnosis     | ICD-10-CM |
| S30.850  | Superficial foreign body of lower back and pelvis   | Diagnosis     | ICD-10-CM |
| S30.850A | Superficial foreign body of lower back and pelvis, initial encounter                          | Diagnosis     | ICD-10-CM |
| S30.850D | Superficial foreign body of lower back and pelvis, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S30.850S | Superficial foreign body of lower back and pelvis, sequela                                    | Diagnosis     | ICD-10-CM |
| S30.851  | Superficial foreign body of abdominal wall  | Diagnosis     | ICD-10-CM |
| S30.851A | Superficial foreign body of abdominal wall, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S30.851D | Superficial foreign body of abdominal wall, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S30.851S | Superficial foreign body of abdominal wall, sequela   | Diagnosis     | ICD-10-CM |
| S30.852  | Superficial foreign body of penis   | Diagnosis     | ICD-10-CM |
| S30.852A | Superficial foreign body of penis, initial encounter  | Diagnosis     | ICD-10-CM |
| S30.852D | Superficial foreign body of penis, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S30.852S | Superficial foreign body of penis, sequela  | Diagnosis     | ICD-10-CM |
| S30.853  | Superficial foreign body of scrotum and testes  | Diagnosis     | ICD-10-CM |
| S30.853A | Superficial foreign body of scrotum and testes, initial encounter                             | Diagnosis     | ICD-10-CM |
| S30.853D | Superficial foreign body of scrotum and testes, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S30.853S | Superficial foreign body of scrotum and testes, sequela                                       | Diagnosis     | ICD-10-CM |
| S30.854  | Superficial foreign body of vagina and vulva  | Diagnosis     | ICD-10-CM |
| S30.854A | Superficial foreign body of vagina and vulva, initial encounter                               | Diagnosis     | ICD-10-CM |
| S30.854D | Superficial foreign body of vagina and vulva, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S30.854S | Superficial foreign body of vagina and vulva, sequela   | Diagnosis     | ICD-10-CM |
| S30.855  | Superficial foreign body of unspecified external genital organs, male                         | Diagnosis     | ICD-10-CM |
| S30.855A | Superficial foreign body of unspecified external genital organs, male, initial encounter      | Diagnosis     | ICD-10-CM |
| S30.855D | Superficial foreign body of unspecified external genital organs, male, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S30.855S | Superficial foreign body of unspecified external genital organs, male, sequela                | Diagnosis     | ICD-10-CM |
| S30.856  | Superficial foreign body of unspecified external genital organs, female                       | Diagnosis     | ICD-10-CM |
| S30.856A | Superficial foreign body of unspecified external genital organs, female, initial encounter    | Diagnosis     | ICD-10-CM |
| S30.856D | Superficial foreign body of unspecified external genital organs, female, subsequent encounter | Diagnosis     | ICD-10-CM |
| S30.856S | Superficial foreign body of unspecified external genital organs, female, sequela              | Diagnosis     | ICD-10-CM |
| S30.857  | Superficial foreign body of anus  | Diagnosis     | ICD-10-CM |
| S30.857A | Superficial foreign body of anus, initial encounter   | Diagnosis     | ICD-10-CM |
| S30.857D | Superficial foreign body of anus, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S30.857S | Superficial foreign body of anus, sequela   | Diagnosis     | ICD-10-CM |
| S30.86   | Insect bite (nonvenomous) of abdomen, lower back, pelvis and external genitals                | Diagnosis     | ICD-10-CM |
| S30.860  | Insect bite (nonvenomous) of lower back and pelvis  | Diagnosis     | ICD-10-CM |
| S30.860A | Insect bite (nonvenomous) of lower back and pelvis, initial encounter                         | Diagnosis     | ICD-10-CM |
| S30.860D | Insect bite (nonvenomous) of lower back and pelvis, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S30.860S | Insect bite (nonvenomous) of lower back and pelvis, sequela                                   | Diagnosis     | ICD-10-CM |
| S30.861  | Insect bite (nonvenomous) of abdominal wall   | Diagnosis     | ICD-10-CM |
| S30.861A | Insect bite (nonvenomous) of abdominal wall, initial encounter                                | Diagnosis     | ICD-10-CM |
| S30.861D | Insect bite (nonvenomous) of abdominal wall, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S30.861S | Insect bite (nonvenomous) of abdominal wall, sequela  | Diagnosis     | ICD-10-CM |
| S30.862  | Insect bite (nonvenomous) of penis  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S30.862A | Insect bite (nonvenomous) of penis, initial encounter  | Diagnosis     | ICD-10-CM |
| S30.862D | Insect bite (nonvenomous) of penis, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S30.862S | Insect bite (nonvenomous) of penis, sequela  | Diagnosis     | ICD-10-CM |
| S30.863  | Insect bite (nonvenomous) of scrotum and testes  | Diagnosis     | ICD-10-CM |
| S30.863A | Insect bite (nonvenomous) of scrotum and testes, initial encounter                             | Diagnosis     | ICD-10-CM |
| S30.863D | Insect bite (nonvenomous) of scrotum and testes, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S30.863S | Insect bite (nonvenomous) of scrotum and testes, sequela                                       | Diagnosis     | ICD-10-CM |
| S30.864  | Insect bite (nonvenomous) of vagina and vulva  | Diagnosis     | ICD-10-CM |
| S30.864A | Insect bite (nonvenomous) of vagina and vulva, initial encounter                               | Diagnosis     | ICD-10-CM |
| S30.864D | Insect bite (nonvenomous) of vagina and vulva, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S30.864S | Insect bite (nonvenomous) of vagina and vulva, sequela   | Diagnosis     | ICD-10-CM |
| S30.865  | Insect bite (nonvenomous) of unspecified external genital organs, male                         | Diagnosis     | ICD-10-CM |
| S30.865A | Insect bite (nonvenomous) of unspecified external genital organs, male, initial encounter      | Diagnosis     | ICD-10-CM |
| S30.865D | Insect bite (nonvenomous) of unspecified external genital organs, male, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S30.865S | Insect bite (nonvenomous) of unspecified external genital organs, male, sequela                | Diagnosis     | ICD-10-CM |
| S30.866  | Insect bite (nonvenomous) of unspecified external genital organs, female                       | Diagnosis     | ICD-10-CM |
| S30.866A | Insect bite (nonvenomous) of unspecified external genital organs, female, initial encounter    | Diagnosis     | ICD-10-CM |
| S30.866D | Insect bite (nonvenomous) of unspecified external genital organs, female, subsequent encounter | Diagnosis     | ICD-10-CM |
| S30.866S | Insect bite (nonvenomous) of unspecified external genital organs, female, sequela              | Diagnosis     | ICD-10-CM |
| S30.867  | Insect bite (nonvenomous) of anus  | Diagnosis     | ICD-10-CM |
| S30.867A | Insect bite (nonvenomous) of anus, initial encounter   | Diagnosis     | ICD-10-CM |
| S30.867D | Insect bite (nonvenomous) of anus, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S30.867S | Insect bite (nonvenomous) of anus, sequela   | Diagnosis     | ICD-10-CM |
| S30.87   | Other superficial bite of abdomen, lower back, pelvis and external genitals                    | Diagnosis     | ICD-10-CM |
| S30.870  | Other superficial bite of lower back and pelvis  | Diagnosis     | ICD-10-CM |
| S30.870A | Other superficial bite of lower back and pelvis, initial encounter                             | Diagnosis     | ICD-10-CM |
| S30.870D | Other superficial bite of lower back and pelvis, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S30.870S | Other superficial bite of lower back and pelvis, sequela                                       | Diagnosis     | ICD-10-CM |
| S30.871  | Other superficial bite of abdominal wall   | Diagnosis     | ICD-10-CM |
| S30.871A | Other superficial bite of abdominal wall, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S30.871D | Other superficial bite of abdominal wall, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S30.871S | Other superficial bite of abdominal wall, sequela  | Diagnosis     | ICD-10-CM |
| S30.872  | Other superficial bite of penis  | Diagnosis     | ICD-10-CM |
| S30.872A | Other superficial bite of penis, initial encounter   | Diagnosis     | ICD-10-CM |
| S30.872D | Other superficial bite of penis, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S30.872S | Other superficial bite of penis, sequela   | Diagnosis     | ICD-10-CM |
| S30.873  | Other superficial bite of scrotum and testes   | Diagnosis     | ICD-10-CM |
| S30.873A | Other superficial bite of scrotum and testes, initial encounter                                | Diagnosis     | ICD-10-CM |
| S30.873D | Other superficial bite of scrotum and testes, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S30.873S | Other superficial bite of scrotum and testes, sequela  | Diagnosis     | ICD-10-CM |
| S30.874  | Other superficial bite of vagina and vulva   | Diagnosis     | ICD-10-CM |
| S30.874A | Other superficial bite of vagina and vulva, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S30.874D | Other superficial bite of vagina and vulva, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S30.874S | Other superficial bite of vagina and vulva, sequela  | Diagnosis     | ICD-10-CM |
| S30.875  | Other superficial bite of unspecified external genital organs, male                            | Diagnosis     | ICD-10-CM |
| S30.875A | Other superficial bite of unspecified external genital organs, male, initial encounter         | Diagnosis     | ICD-10-CM |
| S30.875D | Other superficial bite of unspecified external genital organs, male, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S30.875S | Other superficial bite of unspecified external genital organs, male, sequela                   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S30.876  | Other superficial bite of unspecified external genital organs, female                                       | Diagnosis     | ICD-10-CM |
| S30.876A | Other superficial bite of unspecified external genital organs, female, initial encounter                    | Diagnosis     | ICD-10-CM |
| S30.876D | Other superficial bite of unspecified external genital organs, female, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S30.876S | Other superficial bite of unspecified external genital organs, female, sequela                              | Diagnosis     | ICD-10-CM |
| S30.877  | Other superficial bite of anus  | Diagnosis     | ICD-10-CM |
| S30.877A | Other superficial bite of anus, initial encounter   | Diagnosis     | ICD-10-CM |
| S30.877D | Other superficial bite of anus, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S30.877S | Other superficial bite of anus, sequela   | Diagnosis     | ICD-10-CM |
| S30.9    | Unspecified superficial injury of abdomen, lower back, pelvis and external genitals                         | Diagnosis     | ICD-10-CM |
| S30.91   | Unspecified superficial injury of lower back and pelvis   | Diagnosis     | ICD-10-CM |
| S30.91XA | Unspecified superficial injury of lower back and pelvis, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S30.91XD | Unspecified superficial injury of lower back and pelvis, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S30.91XS | Unspecified superficial injury of lower back and pelvis, sequela  | Diagnosis     | ICD-10-CM |
| S30.92   | Unspecified superficial injury of abdominal wall  | Diagnosis     | ICD-10-CM |
| S30.92XA | Unspecified superficial injury of abdominal wall, initial encounter   | Diagnosis     | ICD-10-CM |
| S30.92XD | Unspecified superficial injury of abdominal wall, subsequent encounter                                      | Diagnosis     | ICD-10-CM |
| S30.92XS | Unspecified superficial injury of abdominal wall, sequela   | Diagnosis     | ICD-10-CM |
| S30.93   | Unspecified superficial injury of penis   | Diagnosis     | ICD-10-CM |
| S30.93XA | Unspecified superficial injury of penis, initial encounter  | Diagnosis     | ICD-10-CM |
| S30.93XD | Unspecified superficial injury of penis, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S30.93XS | Unspecified superficial injury of penis, sequela  | Diagnosis     | ICD-10-CM |
| S30.94   | Unspecified superficial injury of scrotum and testes  | Diagnosis     | ICD-10-CM |
| S30.94XA | Unspecified superficial injury of scrotum and testes, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S30.94XD | Unspecified superficial injury of scrotum and testes, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S30.94XS | Unspecified superficial injury of scrotum and testes, sequela   | Diagnosis     | ICD-10-CM |
| S30.95   | Unspecified superficial injury of vagina and vulva  | Diagnosis     | ICD-10-CM |
| S30.95XA | Unspecified superficial injury of vagina and vulva, initial encounter                                       | Diagnosis     | ICD-10-CM |
| S30.95XD | Unspecified superficial injury of vagina and vulva, subsequent encounter                                    | Diagnosis     | ICD-10-CM |
| S30.95XS | Unspecified superficial injury of vagina and vulva, sequela   | Diagnosis     | ICD-10-CM |
| S30.96   | Unspecified superficial injury of unspecified external genital organs, male                                 | Diagnosis     | ICD-10-CM |
| S30.96XA | Unspecified superficial injury of unspecified external genital organs, male, initial encounter              | Diagnosis     | ICD-10-CM |
| S30.96XD | Unspecified superficial injury of unspecified external genital organs, male, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S30.96XS | Unspecified superficial injury of unspecified external genital organs, male, sequela                        | Diagnosis     | ICD-10-CM |
| S30.97   | Unspecified superficial injury of unspecified external genital organs, female                               | Diagnosis     | ICD-10-CM |
| S30.97XA | Unspecified superficial injury of unspecified external genital organs, female, initial encounter            | Diagnosis     | ICD-10-CM |
| S30.97XD | Unspecified superficial injury of unspecified external genital organs, female, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S30.97XS | Unspecified superficial injury of unspecified external genital organs, female, sequela                      | Diagnosis     | ICD-10-CM |
| S30.98   | Unspecified superficial injury of anus  | Diagnosis     | ICD-10-CM |
| S30.98XA | Unspecified superficial injury of anus, initial encounter   | Diagnosis     | ICD-10-CM |
| S30.98XD | Unspecified superficial injury of anus, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S30.98XS | Unspecified superficial injury of anus, sequela   | Diagnosis     | ICD-10-CM |
| S31      | Open wound of abdomen, lower back, pelvis and external genitals   | Diagnosis     | ICD-10-CM |
| S31.0    | Open wound of lower back and pelvis   | Diagnosis     | ICD-10-CM |
| S31.00   | Unspecified open wound of lower back and pelvis   | Diagnosis     | ICD-10-CM |
| S31.000  | Unspecified open wound of lower back and pelvis without penetration into retroperitoneum                    | Diagnosis     | ICD-10-CM |
| S31.000A | Unspecified open wound of lower back and pelvis without penetration into retroperitoneum, initial encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S31.000D | Unspecified open wound of lower back and pelvis without penetration into retroperitoneum, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S31.000S | Unspecified open wound of lower back and pelvis without penetration into retroperitoneum, sequela                        | Diagnosis     | ICD-10-CM |
| S31.001  | Unspecified open wound of lower back and pelvis with penetration into retroperitoneum                                    | Diagnosis     | ICD-10-CM |
| S31.001A | Unspecified open wound of lower back and pelvis with penetration into retroperitoneum, initial encounter                 | Diagnosis     | ICD-10-CM |
| S31.001D | Unspecified open wound of lower back and pelvis with penetration into retroperitoneum, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S31.001S | Unspecified open wound of lower back and pelvis with penetration into retroperitoneum, sequela                           | Diagnosis     | ICD-10-CM |
| S31.01   | Laceration without foreign body of lower back and pelvis   | Diagnosis     | ICD-10-CM |
| S31.010  | Laceration without foreign body of lower back and pelvis without penetration into retroperitoneum                        | Diagnosis     | ICD-10-CM |
| S31.010A | Laceration without foreign body of lower back and pelvis without penetration into retroperitoneum, initial encounter     | Diagnosis     | ICD-10-CM |
| S31.010D | Laceration without foreign body of lower back and pelvis without penetration into retroperitoneum, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.010S | Laceration without foreign body of lower back and pelvis without penetration into retroperitoneum, sequela               | Diagnosis     | ICD-10-CM |
| S31.011  | Laceration without foreign body of lower back and pelvis with penetration into retroperitoneum                           | Diagnosis     | ICD-10-CM |
| S31.011A | Laceration without foreign body of lower back and pelvis with penetration into retroperitoneum, initial encounter        | Diagnosis     | ICD-10-CM |
| S31.011D | Laceration without foreign body of lower back and pelvis with penetration into retroperitoneum, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S31.011S | Laceration without foreign body of lower back and pelvis with penetration into retroperitoneum, sequela                  | Diagnosis     | ICD-10-CM |
| S31.02   | Laceration with foreign body of lower back and pelvis  | Diagnosis     | ICD-10-CM |
| S31.020  | Laceration with foreign body of lower back and pelvis without penetration into retroperitoneum                           | Diagnosis     | ICD-10-CM |
| S31.020A | Laceration with foreign body of lower back and pelvis without penetration into retroperitoneum, initial encounter        | Diagnosis     | ICD-10-CM |
| S31.020D | Laceration with foreign body of lower back and pelvis without penetration into retroperitoneum, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S31.020S | Laceration with foreign body of lower back and pelvis without penetration into retroperitoneum, sequela                  | Diagnosis     | ICD-10-CM |
| S31.021  | Laceration with foreign body of lower back and pelvis with penetration into retroperitoneum                              | Diagnosis     | ICD-10-CM |
| S31.021A | Laceration with foreign body of lower back and pelvis with penetration into retroperitoneum, initial encounter           | Diagnosis     | ICD-10-CM |
| S31.021D | Laceration with foreign body of lower back and pelvis with penetration into retroperitoneum, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S31.021S | Laceration with foreign body of lower back and pelvis with penetration into retroperitoneum, sequela                     | Diagnosis     | ICD-10-CM |
| S31.03   | Puncture wound without foreign body of lower back and pelvis   | Diagnosis     | ICD-10-CM |
| S31.030  | Puncture wound without foreign body of lower back and pelvis without penetration into retroperitoneum                    | Diagnosis     | ICD-10-CM |
| S31.030A | Puncture wound without foreign body of lower back and pelvis without penetration into retroperitoneum, initial encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S31.030D | Puncture wound without foreign body of lower back and pelvis without penetration into retroperitoneum, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S31.030S | Puncture wound without foreign body of lower back and pelvis without penetration into retroperitoneum, sequela                  | Diagnosis     | ICD-10-CM |
| S31.031  | Puncture wound without foreign body of lower back and pelvis with penetration into retroperitoneum                              | Diagnosis     | ICD-10-CM |
| S31.031A | Puncture wound without foreign body of lower back and pelvis with penetration into retroperitoneum, initial encounter           | Diagnosis     | ICD-10-CM |
| S31.031D | Puncture wound without foreign body of lower back and pelvis with penetration into retroperitoneum, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S31.031S | Puncture wound without foreign body of lower back and pelvis with penetration into retroperitoneum, sequela                     | Diagnosis     | ICD-10-CM |
| S31.04   | Puncture wound with foreign body of lower back and pelvis   | Diagnosis     | ICD-10-CM |
| S31.040  | Puncture wound with foreign body of lower back and pelvis without penetration into retroperitoneum                              | Diagnosis     | ICD-10-CM |
| S31.040A | Puncture wound with foreign body of lower back and pelvis without penetration into retroperitoneum, initial encounter           | Diagnosis     | ICD-10-CM |
| S31.040D | Puncture wound with foreign body of lower back and pelvis without penetration into retroperitoneum, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S31.040S | Puncture wound with foreign body of lower back and pelvis without penetration into retroperitoneum, sequela                     | Diagnosis     | ICD-10-CM |
| S31.041  | Puncture wound with foreign body of lower back and pelvis with penetration into retroperitoneum                                 | Diagnosis     | ICD-10-CM |
| S31.041A | Puncture wound with foreign body of lower back and pelvis with penetration into retroperitoneum, initial encounter              | Diagnosis     | ICD-10-CM |
| S31.041D | Puncture wound with foreign body of lower back and pelvis with penetration into retroperitoneum, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S31.041S | Puncture wound with foreign body of lower back and pelvis with penetration into retroperitoneum, sequela                        | Diagnosis     | ICD-10-CM |
| S31.05   | Open bite of lower back and pelvis  | Diagnosis     | ICD-10-CM |
| S31.050  | Open bite of lower back and pelvis without penetration into retroperitoneum   | Diagnosis     | ICD-10-CM |
| S31.050A | Open bite of lower back and pelvis without penetration into retroperitoneum, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S31.050D | Open bite of lower back and pelvis without penetration into retroperitoneum, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S31.050S | Open bite of lower back and pelvis without penetration into retroperitoneum, sequela  | Diagnosis     | ICD-10-CM |
| S31.051  | Open bite of lower back and pelvis with penetration into retroperitoneum  | Diagnosis     | ICD-10-CM |
| S31.051A | Open bite of lower back and pelvis with penetration into retroperitoneum, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S31.051D | Open bite of lower back and pelvis with penetration into retroperitoneum, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S31.051S | Open bite of lower back and pelvis with penetration into retroperitoneum, sequela   | Diagnosis     | ICD-10-CM |
| S31.1    | Open wound of abdominal wall without penetration into peritoneal cavity   | Diagnosis     | ICD-10-CM |
| S31.10   | Unspecified open wound of abdominal wall without penetration into peritoneal cavity   | Diagnosis     | ICD-10-CM |
| S31.100  | Unspecified open wound of abdominal wall, right upper quadrant without penetration into peritoneal cavity                       | Diagnosis     | ICD-10-CM |
| S31.100A | Unspecified open wound of abdominal wall, right upper quadrant without penetration into peritoneal cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.100D | Unspecified open wound of abdominal wall, right upper quadrant without penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S31.100S | Unspecified open wound of abdominal wall, right upper quadrant without penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |
| S31.101  | Unspecified open wound of abdominal wall, left upper quadrant without penetration into peritoneal cavity                        | Diagnosis     | ICD-10-CM |
| S31.101A | Unspecified open wound of abdominal wall, left upper quadrant without penetration into peritoneal cavity, initial encounter     | Diagnosis     | ICD-10-CM |
| S31.101D | Unspecified open wound of abdominal wall, left upper quadrant without penetration into peritoneal cavity, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.101S | Unspecified open wound of abdominal wall, left upper quadrant without penetration into peritoneal cavity, sequela               | Diagnosis     | ICD-10-CM |
| S31.102  | Unspecified open wound of abdominal wall, epigastric region without penetration into peritoneal cavity                          | Diagnosis     | ICD-10-CM |
| S31.102A | Unspecified open wound of abdominal wall, epigastric region without penetration into peritoneal cavity, initial encounter       | Diagnosis     | ICD-10-CM |
| S31.102D | Unspecified open wound of abdominal wall, epigastric region without penetration into peritoneal cavity, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S31.102S | Unspecified open wound of abdominal wall, epigastric region without penetration into peritoneal cavity, sequela                 | Diagnosis     | ICD-10-CM |
| S31.103  | Unspecified open wound of abdominal wall, right lower quadrant without penetration into peritoneal cavity                       | Diagnosis     | ICD-10-CM |
| S31.103A | Unspecified open wound of abdominal wall, right lower quadrant without penetration into peritoneal cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.103D | Unspecified open wound of abdominal wall, right lower quadrant without penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.103S | Unspecified open wound of abdominal wall, right lower quadrant without penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |
| S31.104  | Unspecified open wound of abdominal wall, left lower quadrant without penetration into peritoneal cavity                        | Diagnosis     | ICD-10-CM |
| S31.104A | Unspecified open wound of abdominal wall, left lower quadrant without penetration into peritoneal cavity, initial encounter     | Diagnosis     | ICD-10-CM |
| S31.104D | Unspecified open wound of abdominal wall, left lower quadrant without penetration into peritoneal cavity, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.104S | Unspecified open wound of abdominal wall, left lower quadrant without penetration into peritoneal cavity, sequela               | Diagnosis     | ICD-10-CM |
| S31.105  | Unspecified open wound of abdominal wall, periumbilic region without penetration into peritoneal cavity                         | Diagnosis     | ICD-10-CM |
| S31.105A | Unspecified open wound of abdominal wall, periumbilic region without penetration into peritoneal cavity, initial encounter      | Diagnosis     | ICD-10-CM |
| S31.105D | Unspecified open wound of abdominal wall, periumbilic region without penetration into peritoneal cavity, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S31.105S | Unspecified open wound of abdominal wall, periumbilic region without penetration into peritoneal cavity, sequela                | Diagnosis     | ICD-10-CM |
| S31.109  | Unspecified open wound of abdominal wall, unspecified quadrant without penetration into peritoneal cavity                       | Diagnosis     | ICD-10-CM |
| S31.109A | Unspecified open wound of abdominal wall, unspecified quadrant without penetration into peritoneal cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.109D | Unspecified open wound of abdominal wall, unspecified quadrant without penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.109S | Unspecified open wound of abdominal wall, unspecified quadrant without penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S31.11   | Laceration without foreign body of abdominal wall without penetration into peritoneal cavity   | Diagnosis     | ICD-10-CM |
| S31.110  | Laceration without foreign body of abdominal wall, right upper quadrant without penetration into peritoneal cavity                       | Diagnosis     | ICD-10-CM |
| S31.110A | Laceration without foreign body of abdominal wall, right upper quadrant without penetration into peritoneal cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.110D | Laceration without foreign body of abdominal wall, right upper quadrant without penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.110S | Laceration without foreign body of abdominal wall, right upper quadrant without penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |
| S31.111  | Laceration without foreign body of abdominal wall, left upper quadrant without penetration into peritoneal cavity                        | Diagnosis     | ICD-10-CM |
| S31.111A | Laceration without foreign body of abdominal wall, left upper quadrant without penetration into peritoneal cavity, initial encounter     | Diagnosis     | ICD-10-CM |
| S31.111D | Laceration without foreign body of abdominal wall, left upper quadrant without penetration into peritoneal cavity, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.111S | Laceration without foreign body of abdominal wall, left upper quadrant without penetration into peritoneal cavity, sequela               | Diagnosis     | ICD-10-CM |
| S31.112  | Laceration without foreign body of abdominal wall, epigastric region without penetration into peritoneal cavity                          | Diagnosis     | ICD-10-CM |
| S31.112A | Laceration without foreign body of abdominal wall, epigastric region without penetration into peritoneal cavity, initial encounter       | Diagnosis     | ICD-10-CM |
| S31.112D | Laceration without foreign body of abdominal wall, epigastric region without penetration into peritoneal cavity, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S31.112S | Laceration without foreign body of abdominal wall, epigastric region without penetration into peritoneal cavity, sequela                 | Diagnosis     | ICD-10-CM |
| S31.113  | Laceration without foreign body of abdominal wall, right lower quadrant without penetration into peritoneal cavity                       | Diagnosis     | ICD-10-CM |
| S31.113A | Laceration without foreign body of abdominal wall, right lower quadrant without penetration into peritoneal cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.113D | Laceration without foreign body of abdominal wall, right lower quadrant without penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.113S | Laceration without foreign body of abdominal wall, right lower quadrant without penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |
| S31.114  | Laceration without foreign body of abdominal wall, left lower quadrant without penetration into peritoneal cavity                        | Diagnosis     | ICD-10-CM |
| S31.114A | Laceration without foreign body of abdominal wall, left lower quadrant without penetration into peritoneal cavity, initial encounter     | Diagnosis     | ICD-10-CM |
| S31.114D | Laceration without foreign body of abdominal wall, left lower quadrant without penetration into peritoneal cavity, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.114S | Laceration without foreign body of abdominal wall, left lower quadrant without penetration into peritoneal cavity, sequela               | Diagnosis     | ICD-10-CM |
| S31.115  | Laceration without foreign body of abdominal wall, periumbilic region without penetration into peritoneal cavity                         | Diagnosis     | ICD-10-CM |
| S31.115A | Laceration without foreign body of abdominal wall, periumbilic region without penetration into peritoneal cavity, initial encounter      | Diagnosis     | ICD-10-CM |
| S31.115D | Laceration without foreign body of abdominal wall, periumbilic region without penetration into peritoneal cavity, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S31.115S | Laceration without foreign body of abdominal wall, periumbilic region without penetration into peritoneal cavity, sequela                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S31.119  | Laceration without foreign body of abdominal wall, unspecified quadrant without penetration into peritoneal cavity                       | Diagnosis     | ICD-10-CM |
| S31.119A | Laceration without foreign body of abdominal wall, unspecified quadrant without penetration into peritoneal cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.119D | Laceration without foreign body of abdominal wall, unspecified quadrant without penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.119S | Laceration without foreign body of abdominal wall, unspecified quadrant without penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |
| S31.12   | Laceration with foreign body of abdominal wall without penetration into peritoneal cavity  | Diagnosis     | ICD-10-CM |
| S31.120  | Laceration of abdominal wall with foreign body, right upper quadrant without penetration into peritoneal cavity                          | Diagnosis     | ICD-10-CM |
| S31.120A | Laceration of abdominal wall with foreign body, right upper quadrant without penetration into peritoneal cavity, initial encounter       | Diagnosis     | ICD-10-CM |
| S31.120D | Laceration of abdominal wall with foreign body, right upper quadrant without penetration into peritoneal cavity, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S31.120S | Laceration of abdominal wall with foreign body, right upper quadrant without penetration into peritoneal cavity, sequela                 | Diagnosis     | ICD-10-CM |
| S31.121  | Laceration of abdominal wall with foreign body, left upper quadrant without penetration into peritoneal cavity                           | Diagnosis     | ICD-10-CM |
| S31.121A | Laceration of abdominal wall with foreign body, left upper quadrant without penetration into peritoneal cavity, initial encounter        | Diagnosis     | ICD-10-CM |
| S31.121D | Laceration of abdominal wall with foreign body, left upper quadrant without penetration into peritoneal cavity, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S31.121S | Laceration of abdominal wall with foreign body, left upper quadrant without penetration into peritoneal cavity, sequela                  | Diagnosis     | ICD-10-CM |
| S31.122  | Laceration of abdominal wall with foreign body, epigastric region without penetration into peritoneal cavity                             | Diagnosis     | ICD-10-CM |
| S31.122A | Laceration of abdominal wall with foreign body, epigastric region without penetration into peritoneal cavity, initial encounter          | Diagnosis     | ICD-10-CM |
| S31.122D | Laceration of abdominal wall with foreign body, epigastric region without penetration into peritoneal cavity, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S31.122S | Laceration of abdominal wall with foreign body, epigastric region without penetration into peritoneal cavity, sequela                    | Diagnosis     | ICD-10-CM |
| S31.123  | Laceration of abdominal wall with foreign body, right lower quadrant without penetration into peritoneal cavity                          | Diagnosis     | ICD-10-CM |
| S31.123A | Laceration of abdominal wall with foreign body, right lower quadrant without penetration into peritoneal cavity, initial encounter       | Diagnosis     | ICD-10-CM |
| S31.123D | Laceration of abdominal wall with foreign body, right lower quadrant without penetration into peritoneal cavity, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S31.123S | Laceration of abdominal wall with foreign body, right lower quadrant without penetration into peritoneal cavity, sequela                 | Diagnosis     | ICD-10-CM |
| S31.124  | Laceration of abdominal wall with foreign body, left lower quadrant without penetration into peritoneal cavity                           | Diagnosis     | ICD-10-CM |
| S31.124A | Laceration of abdominal wall with foreign body, left lower quadrant without penetration into peritoneal cavity, initial encounter        | Diagnosis     | ICD-10-CM |
| S31.124D | Laceration of abdominal wall with foreign body, left lower quadrant without penetration into peritoneal cavity, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S31.124S | Laceration of abdominal wall with foreign body, left lower quadrant without penetration into peritoneal cavity, sequela                  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S31.125  | Laceration of abdominal wall with foreign body, periumbilic region without penetration into peritoneal cavity                                | Diagnosis     | ICD-10-CM |
| S31.125A | Laceration of abdominal wall with foreign body, periumbilic region without penetration into peritoneal cavity, initial encounter             | Diagnosis     | ICD-10-CM |
| S31.125D | Laceration of abdominal wall with foreign body, periumbilic region without penetration into peritoneal cavity, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S31.125S | Laceration of abdominal wall with foreign body, periumbilic region without penetration into peritoneal cavity, sequela                       | Diagnosis     | ICD-10-CM |
| S31.129  | Laceration of abdominal wall with foreign body, unspecified quadrant without penetration into peritoneal cavity                              | Diagnosis     | ICD-10-CM |
| S31.129A | Laceration of abdominal wall with foreign body, unspecified quadrant without penetration into peritoneal cavity, initial encounter           | Diagnosis     | ICD-10-CM |
| S31.129D | Laceration of abdominal wall with foreign body, unspecified quadrant without penetration into peritoneal cavity, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S31.129S | Laceration of abdominal wall with foreign body, unspecified quadrant without penetration into peritoneal cavity, sequela                     | Diagnosis     | ICD-10-CM |
| S31.13   | Puncture wound of abdominal wall without foreign body without penetration into peritoneal cavity   | Diagnosis     | ICD-10-CM |
| S31.130  | Puncture wound of abdominal wall without foreign body, right upper quadrant without penetration into peritoneal cavity                       | Diagnosis     | ICD-10-CM |
| S31.130A | Puncture wound of abdominal wall without foreign body, right upper quadrant without penetration into peritoneal cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.130D | Puncture wound of abdominal wall without foreign body, right upper quadrant without penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.130S | Puncture wound of abdominal wall without foreign body, right upper quadrant without penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |
| S31.131  | Puncture wound of abdominal wall without foreign body, left upper quadrant without penetration into peritoneal cavity                        | Diagnosis     | ICD-10-CM |
| S31.131A | Puncture wound of abdominal wall without foreign body, left upper quadrant without penetration into peritoneal cavity, initial encounter     | Diagnosis     | ICD-10-CM |
| S31.131D | Puncture wound of abdominal wall without foreign body, left upper quadrant without penetration into peritoneal cavity, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.131S | Puncture wound of abdominal wall without foreign body, left upper quadrant without penetration into peritoneal cavity, sequela               | Diagnosis     | ICD-10-CM |
| S31.132  | Puncture wound of abdominal wall without foreign body, epigastric region without penetration into peritoneal cavity                          | Diagnosis     | ICD-10-CM |
| S31.132A | Puncture wound of abdominal wall without foreign body, epigastric region without penetration into peritoneal cavity, initial encounter       | Diagnosis     | ICD-10-CM |
| S31.132D | Puncture wound of abdominal wall without foreign body, epigastric region without penetration into peritoneal cavity, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S31.132S | Puncture wound of abdominal wall without foreign body, epigastric region without penetration into peritoneal cavity, sequela                 | Diagnosis     | ICD-10-CM |
| S31.133  | Puncture wound of abdominal wall without foreign body, right lower quadrant without penetration into peritoneal cavity                       | Diagnosis     | ICD-10-CM |
| S31.133A | Puncture wound of abdominal wall without foreign body, right lower quadrant without penetration into peritoneal cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.133D | Puncture wound of abdominal wall without foreign body, right lower quadrant without penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.133S | Puncture wound of abdominal wall without foreign body, right lower quadrant without penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S31.134  | Puncture wound of abdominal wall without foreign body, left lower quadrant without penetration into peritoneal cavity                        | Diagnosis     | ICD-10-CM |
| S31.134A | Puncture wound of abdominal wall without foreign body, left lower quadrant without penetration into peritoneal cavity, initial encounter     | Diagnosis     | ICD-10-CM |
| S31.134D | Puncture wound of abdominal wall without foreign body, left lower quadrant without penetration into peritoneal cavity, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.134S | Puncture wound of abdominal wall without foreign body, left lower quadrant without penetration into peritoneal cavity, sequela               | Diagnosis     | ICD-10-CM |
| S31.135  | Puncture wound of abdominal wall without foreign body, periumbilic region without penetration into peritoneal cavity                         | Diagnosis     | ICD-10-CM |
| S31.135A | Puncture wound of abdominal wall without foreign body, periumbilic region without penetration into peritoneal cavity, initial encounter      | Diagnosis     | ICD-10-CM |
| S31.135D | Puncture wound of abdominal wall without foreign body, periumbilic region without penetration into peritoneal cavity, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S31.135S | Puncture wound of abdominal wall without foreign body, periumbilic region without penetration into peritoneal cavity, sequela                | Diagnosis     | ICD-10-CM |
| S31.139  | Puncture wound of abdominal wall without foreign body, unspecified quadrant without penetration into peritoneal cavity                       | Diagnosis     | ICD-10-CM |
| S31.139A | Puncture wound of abdominal wall without foreign body, unspecified quadrant without penetration into peritoneal cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.139D | Puncture wound of abdominal wall without foreign body, unspecified quadrant without penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.139S | Puncture wound of abdominal wall without foreign body, unspecified quadrant without penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |
| S31.14   | Puncture wound of abdominal wall with foreign body without penetration into peritoneal cavity  | Diagnosis     | ICD-10-CM |
| S31.140  | Puncture wound of abdominal wall with foreign body, right upper quadrant without penetration into peritoneal cavity                          | Diagnosis     | ICD-10-CM |
| S31.140A | Puncture wound of abdominal wall with foreign body, right upper quadrant without penetration into peritoneal cavity, initial encounter       | Diagnosis     | ICD-10-CM |
| S31.140D | Puncture wound of abdominal wall with foreign body, right upper quadrant without penetration into peritoneal cavity, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S31.140S | Puncture wound of abdominal wall with foreign body, right upper quadrant without penetration into peritoneal cavity, sequela                 | Diagnosis     | ICD-10-CM |
| S31.141  | Puncture wound of abdominal wall with foreign body, left upper quadrant without penetration into peritoneal cavity                           | Diagnosis     | ICD-10-CM |
| S31.141A | Puncture wound of abdominal wall with foreign body, left upper quadrant without penetration into peritoneal cavity, initial encounter        | Diagnosis     | ICD-10-CM |
| S31.141D | Puncture wound of abdominal wall with foreign body, left upper quadrant without penetration into peritoneal cavity, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S31.141S | Puncture wound of abdominal wall with foreign body, left upper quadrant without penetration into peritoneal cavity, sequela                  | Diagnosis     | ICD-10-CM |
| S31.142  | Puncture wound of abdominal wall with foreign body, epigastric region without penetration into peritoneal cavity                             | Diagnosis     | ICD-10-CM |
| S31.142A | Puncture wound of abdominal wall with foreign body, epigastric region without penetration into peritoneal cavity, initial encounter          | Diagnosis     | ICD-10-CM |
| S31.142D | Puncture wound of abdominal wall with foreign body, epigastric region without penetration into peritoneal cavity, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S31.142S | Puncture wound of abdominal wall with foreign body, epigastric region without penetration into peritoneal cavity, sequela                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S31.143  | Puncture wound of abdominal wall with foreign body, right lower quadrant without penetration into peritoneal cavity                       | Diagnosis     | ICD-10-CM |
| S31.143A | Puncture wound of abdominal wall with foreign body, right lower quadrant without penetration into peritoneal cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.143D | Puncture wound of abdominal wall with foreign body, right lower quadrant without penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.143S | Puncture wound of abdominal wall with foreign body, right lower quadrant without penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |
| S31.144  | Puncture wound of abdominal wall with foreign body, left lower quadrant without penetration into peritoneal cavity                        | Diagnosis     | ICD-10-CM |
| S31.144A | Puncture wound of abdominal wall with foreign body, left lower quadrant without penetration into peritoneal cavity, initial encounter     | Diagnosis     | ICD-10-CM |
| S31.144D | Puncture wound of abdominal wall with foreign body, left lower quadrant without penetration into peritoneal cavity, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.144S | Puncture wound of abdominal wall with foreign body, left lower quadrant without penetration into peritoneal cavity, sequela               | Diagnosis     | ICD-10-CM |
| S31.145  | Puncture wound of abdominal wall with foreign body, periumbilic region without penetration into peritoneal cavity                         | Diagnosis     | ICD-10-CM |
| S31.145A | Puncture wound of abdominal wall with foreign body, periumbilic region without penetration into peritoneal cavity, initial encounter      | Diagnosis     | ICD-10-CM |
| S31.145D | Puncture wound of abdominal wall with foreign body, periumbilic region without penetration into peritoneal cavity, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S31.145S | Puncture wound of abdominal wall with foreign body, periumbilic region without penetration into peritoneal cavity, sequela                | Diagnosis     | ICD-10-CM |
| S31.149  | Puncture wound of abdominal wall with foreign body, unspecified quadrant without penetration into peritoneal cavity                       | Diagnosis     | ICD-10-CM |
| S31.149A | Puncture wound of abdominal wall with foreign body, unspecified quadrant without penetration into peritoneal cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.149D | Puncture wound of abdominal wall with foreign body, unspecified quadrant without penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.149S | Puncture wound of abdominal wall with foreign body, unspecified quadrant without penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |
| S31.15   | Open bite of abdominal wall without penetration into peritoneal cavity  | Diagnosis     | ICD-10-CM |
| S31.150  | Open bite of abdominal wall, right upper quadrant without penetration into peritoneal cavity  | Diagnosis     | ICD-10-CM |
| S31.150A | Open bite of abdominal wall, right upper quadrant without penetration into peritoneal cavity, initial encounter                           | Diagnosis     | ICD-10-CM |
| S31.150D | Open bite of abdominal wall, right upper quadrant without penetration into peritoneal cavity, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S31.150S | Open bite of abdominal wall, right upper quadrant without penetration into peritoneal cavity, sequela                                     | Diagnosis     | ICD-10-CM |
| S31.151  | Open bite of abdominal wall, left upper quadrant without penetration into peritoneal cavity   | Diagnosis     | ICD-10-CM |
| S31.151A | Open bite of abdominal wall, left upper quadrant without penetration into peritoneal cavity, initial encounter                            | Diagnosis     | ICD-10-CM |
| S31.151D | Open bite of abdominal wall, left upper quadrant without penetration into peritoneal cavity, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S31.151S | Open bite of abdominal wall, left upper quadrant without penetration into peritoneal cavity, sequela                                      | Diagnosis     | ICD-10-CM |
| S31.152  | Open bite of abdominal wall, epigastric region without penetration into peritoneal cavity   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S31.152A | Open bite of abdominal wall, epigastric region without penetration into peritoneal cavity, initial encounter       | Diagnosis     | ICD-10-CM |
| S31.152D | Open bite of abdominal wall, epigastric region without penetration into peritoneal cavity, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S31.152S | Open bite of abdominal wall, epigastric region without penetration into peritoneal cavity, sequela                 | Diagnosis     | ICD-10-CM |
| S31.153  | Open bite of abdominal wall, right lower quadrant without penetration into peritoneal cavity                       | Diagnosis     | ICD-10-CM |
| S31.153A | Open bite of abdominal wall, right lower quadrant without penetration into peritoneal cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.153D | Open bite of abdominal wall, right lower quadrant without penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.153S | Open bite of abdominal wall, right lower quadrant without penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |
| S31.154  | Open bite of abdominal wall, left lower quadrant without penetration into peritoneal cavity                        | Diagnosis     | ICD-10-CM |
| S31.154A | Open bite of abdominal wall, left lower quadrant without penetration into peritoneal cavity, initial encounter     | Diagnosis     | ICD-10-CM |
| S31.154D | Open bite of abdominal wall, left lower quadrant without penetration into peritoneal cavity, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.154S | Open bite of abdominal wall, left lower quadrant without penetration into peritoneal cavity, sequela               | Diagnosis     | ICD-10-CM |
| S31.155  | Open bite of abdominal wall, periumbilic region without penetration into peritoneal cavity                         | Diagnosis     | ICD-10-CM |
| S31.155A | Open bite of abdominal wall, periumbilic region without penetration into peritoneal cavity, initial encounter      | Diagnosis     | ICD-10-CM |
| S31.155D | Open bite of abdominal wall, periumbilic region without penetration into peritoneal cavity, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S31.155S | Open bite of abdominal wall, periumbilic region without penetration into peritoneal cavity, sequela                | Diagnosis     | ICD-10-CM |
| S31.159  | Open bite of abdominal wall, unspecified quadrant without penetration into peritoneal cavity                       | Diagnosis     | ICD-10-CM |
| S31.159A | Open bite of abdominal wall, unspecified quadrant without penetration into peritoneal cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.159D | Open bite of abdominal wall, unspecified quadrant without penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.159S | Open bite of abdominal wall, unspecified quadrant without penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |
| S31.2    | Open wound of penis  | Diagnosis     | ICD-10-CM |
| S31.20   | Unspecified open wound of penis  | Diagnosis     | ICD-10-CM |
| S31.20XA | Unspecified open wound of penis, initial encounter   | Diagnosis     | ICD-10-CM |
| S31.20XD | Unspecified open wound of penis, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.20XS | Unspecified open wound of penis, sequela   | Diagnosis     | ICD-10-CM |
| S31.21   | Laceration without foreign body of penis   | Diagnosis     | ICD-10-CM |
| S31.21XA | Laceration without foreign body of penis, initial encounter  | Diagnosis     | ICD-10-CM |
| S31.21XD | Laceration without foreign body of penis, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S31.21XS | Laceration without foreign body of penis, sequela  | Diagnosis     | ICD-10-CM |
| S31.22   | Laceration with foreign body of penis  | Diagnosis     | ICD-10-CM |
| S31.22XA | Laceration with foreign body of penis, initial encounter   | Diagnosis     | ICD-10-CM |
| S31.22XD | Laceration with foreign body of penis, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.22XS | Laceration with foreign body of penis, sequela   | Diagnosis     | ICD-10-CM |
| S31.23   | Puncture wound without foreign body of penis   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S31.23XA | Puncture wound without foreign body of penis, initial encounter                 | Diagnosis     | ICD-10-CM |
| S31.23XD | Puncture wound without foreign body of penis, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S31.23XS | Puncture wound without foreign body of penis, sequela                           | Diagnosis     | ICD-10-CM |
| S31.24   | Puncture wound with foreign body of penis                                       | Diagnosis     | ICD-10-CM |
| S31.24XA | Puncture wound with foreign body of penis, initial encounter                    | Diagnosis     | ICD-10-CM |
| S31.24XD | Puncture wound with foreign body of penis, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S31.24XS | Puncture wound with foreign body of penis, sequela                              | Diagnosis     | ICD-10-CM |
| S31.25   | Open bite of penis  | Diagnosis     | ICD-10-CM |
| S31.25XA | Open bite of penis, initial encounter   | Diagnosis     | ICD-10-CM |
| S31.25XD | Open bite of penis, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.25XS | Open bite of penis, sequela   | Diagnosis     | ICD-10-CM |
| S31.3    | Open wound of scrotum and testes  | Diagnosis     | ICD-10-CM |
| S31.30   | Unspecified open wound of scrotum and testes                                    | Diagnosis     | ICD-10-CM |
| S31.30XA | Unspecified open wound of scrotum and testes, initial encounter                 | Diagnosis     | ICD-10-CM |
| S31.30XD | Unspecified open wound of scrotum and testes, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S31.30XS | Unspecified open wound of scrotum and testes, sequela                           | Diagnosis     | ICD-10-CM |
| S31.31   | Laceration without foreign body of scrotum and testes                           | Diagnosis     | ICD-10-CM |
| S31.31XA | Laceration without foreign body of scrotum and testes, initial encounter        | Diagnosis     | ICD-10-CM |
| S31.31XD | Laceration without foreign body of scrotum and testes, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S31.31XS | Laceration without foreign body of scrotum and testes, sequela                  | Diagnosis     | ICD-10-CM |
| S31.32   | Laceration with foreign body of scrotum and testes                              | Diagnosis     | ICD-10-CM |
| S31.32XA | Laceration with foreign body of scrotum and testes, initial encounter           | Diagnosis     | ICD-10-CM |
| S31.32XD | Laceration with foreign body of scrotum and testes, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S31.32XS | Laceration with foreign body of scrotum and testes, sequela                     | Diagnosis     | ICD-10-CM |
| S31.33   | Puncture wound without foreign body of scrotum and testes                       | Diagnosis     | ICD-10-CM |
| S31.33XA | Puncture wound without foreign body of scrotum and testes, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.33XD | Puncture wound without foreign body of scrotum and testes, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.33XS | Puncture wound without foreign body of scrotum and testes, sequela              | Diagnosis     | ICD-10-CM |
| S31.34   | Puncture wound with foreign body of scrotum and testes                          | Diagnosis     | ICD-10-CM |
| S31.34XA | Puncture wound with foreign body of scrotum and testes, initial encounter       | Diagnosis     | ICD-10-CM |
| S31.34XD | Puncture wound with foreign body of scrotum and testes, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S31.34XS | Puncture wound with foreign body of scrotum and testes, sequela                 | Diagnosis     | ICD-10-CM |
| S31.35   | Open bite of scrotum and testes   | Diagnosis     | ICD-10-CM |
| S31.35XA | Open bite of scrotum and testes, initial encounter                              | Diagnosis     | ICD-10-CM |
| S31.35XD | Open bite of scrotum and testes, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S31.35XS | Open bite of scrotum and testes, sequela  | Diagnosis     | ICD-10-CM |
| S31.4    | Open wound of vagina and vulva  | Diagnosis     | ICD-10-CM |
| S31.40   | Unspecified open wound of vagina and vulva                                      | Diagnosis     | ICD-10-CM |
| S31.40XA | Unspecified open wound of vagina and vulva, initial encounter                   | Diagnosis     | ICD-10-CM |
| S31.40XD | Unspecified open wound of vagina and vulva, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S31.40XS | Unspecified open wound of vagina and vulva, sequela                             | Diagnosis     | ICD-10-CM |
| S31.41   | Laceration without foreign body of vagina and vulva                             | Diagnosis     | ICD-10-CM |
| S31.41XA | Laceration without foreign body of vagina and vulva, initial encounter          | Diagnosis     | ICD-10-CM |
| S31.41XD | Laceration without foreign body of vagina and vulva, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S31.41XS | Laceration without foreign body of vagina and vulva, sequela                    | Diagnosis     | ICD-10-CM |
| S31.42   | Laceration with foreign body of vagina and vulva                                | Diagnosis     | ICD-10-CM |
| S31.42XA | Laceration with foreign body of vagina and vulva, initial encounter             | Diagnosis     | ICD-10-CM |
| S31.42XD | Laceration with foreign body of vagina and vulva, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S31.42XS | Laceration with foreign body of vagina and vulva, sequela                       | Diagnosis     | ICD-10-CM |
| S31.43   | Puncture wound without foreign body of vagina and vulva                         | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S31.43XA | Puncture wound without foreign body of vagina and vulva, initial encounter                           | Diagnosis     | ICD-10-CM |
| S31.43XD | Puncture wound without foreign body of vagina and vulva, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S31.43XS | Puncture wound without foreign body of vagina and vulva, sequela                                     | Diagnosis     | ICD-10-CM |
| S31.44   | Puncture wound with foreign body of vagina and vulva   | Diagnosis     | ICD-10-CM |
| S31.44XA | Puncture wound with foreign body of vagina and vulva, initial encounter                              | Diagnosis     | ICD-10-CM |
| S31.44XD | Puncture wound with foreign body of vagina and vulva, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S31.44XS | Puncture wound with foreign body of vagina and vulva, sequela  | Diagnosis     | ICD-10-CM |
| S31.45   | Open bite of vagina and vulva  | Diagnosis     | ICD-10-CM |
| S31.45XA | Open bite of vagina and vulva, initial encounter   | Diagnosis     | ICD-10-CM |
| S31.45XD | Open bite of vagina and vulva, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.45XS | Open bite of vagina and vulva, sequela   | Diagnosis     | ICD-10-CM |
| S31.5    | Open wound of unspecified external genital organs  | Diagnosis     | ICD-10-CM |
| S31.50   | Unspecified open wound of unspecified external genital organs  | Diagnosis     | ICD-10-CM |
| S31.501  | Unspecified open wound of unspecified external genital organs, male                                  | Diagnosis     | ICD-10-CM |
| S31.501A | Unspecified open wound of unspecified external genital organs, male, initial encounter               | Diagnosis     | ICD-10-CM |
| S31.501D | Unspecified open wound of unspecified external genital organs, male, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S31.501S | Unspecified open wound of unspecified external genital organs, male, sequela                         | Diagnosis     | ICD-10-CM |
| S31.502  | Unspecified open wound of unspecified external genital organs, female                                | Diagnosis     | ICD-10-CM |
| S31.502A | Unspecified open wound of unspecified external genital organs, female, initial encounter             | Diagnosis     | ICD-10-CM |
| S31.502D | Unspecified open wound of unspecified external genital organs, female, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S31.502S | Unspecified open wound of unspecified external genital organs, female, sequela                       | Diagnosis     | ICD-10-CM |
| S31.51   | Laceration without foreign body of unspecified external genital organs                               | Diagnosis     | ICD-10-CM |
| S31.511  | Laceration without foreign body of unspecified external genital organs, male                         | Diagnosis     | ICD-10-CM |
| S31.511A | Laceration without foreign body of unspecified external genital organs, male, initial encounter      | Diagnosis     | ICD-10-CM |
| S31.511D | Laceration without foreign body of unspecified external genital organs, male, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S31.511S | Laceration without foreign body of unspecified external genital organs, male, sequela                | Diagnosis     | ICD-10-CM |
| S31.512  | Laceration without foreign body of unspecified external genital organs, female                       | Diagnosis     | ICD-10-CM |
| S31.512A | Laceration without foreign body of unspecified external genital organs, female, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.512D | Laceration without foreign body of unspecified external genital organs, female, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.512S | Laceration without foreign body of unspecified external genital organs, female, sequela              | Diagnosis     | ICD-10-CM |
| S31.52   | Laceration with foreign body of unspecified external genital organs                                  | Diagnosis     | ICD-10-CM |
| S31.521  | Laceration with foreign body of unspecified external genital organs, male                            | Diagnosis     | ICD-10-CM |
| S31.521A | Laceration with foreign body of unspecified external genital organs, male, initial encounter         | Diagnosis     | ICD-10-CM |
| S31.521D | Laceration with foreign body of unspecified external genital organs, male, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S31.521S | Laceration with foreign body of unspecified external genital organs, male, sequela                   | Diagnosis     | ICD-10-CM |
| S31.522  | Laceration with foreign body of unspecified external genital organs, female                          | Diagnosis     | ICD-10-CM |
| S31.522A | Laceration with foreign body of unspecified external genital organs, female, initial encounter       | Diagnosis     | ICD-10-CM |
| S31.522D | Laceration with foreign body of unspecified external genital organs, female, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S31.522S | Laceration with foreign body of unspecified external genital organs, female, sequela                 | Diagnosis     | ICD-10-CM |
| S31.53   | Puncture wound without foreign body of unspecified external genital organs                           | Diagnosis     | ICD-10-CM |
| S31.531  | Puncture wound without foreign body of unspecified external genital organs, male                     | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S31.531A | Puncture wound without foreign body of unspecified external genital organs, male, initial encounter                          | Diagnosis     | ICD-10-CM |
| S31.531D | Puncture wound without foreign body of unspecified external genital organs, male, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S31.531S | Puncture wound without foreign body of unspecified external genital organs, male, sequela                                    | Diagnosis     | ICD-10-CM |
| S31.532  | Puncture wound without foreign body of unspecified external genital organs, female   | Diagnosis     | ICD-10-CM |
| S31.532A | Puncture wound without foreign body of unspecified external genital organs, female, initial encounter                        | Diagnosis     | ICD-10-CM |
| S31.532D | Puncture wound without foreign body of unspecified external genital organs, female, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S31.532S | Puncture wound without foreign body of unspecified external genital organs, female, sequela                                  | Diagnosis     | ICD-10-CM |
| S31.54   | Puncture wound with foreign body of unspecified external genital organs  | Diagnosis     | ICD-10-CM |
| S31.541  | Puncture wound with foreign body of unspecified external genital organs, male  | Diagnosis     | ICD-10-CM |
| S31.541A | Puncture wound with foreign body of unspecified external genital organs, male, initial encounter                             | Diagnosis     | ICD-10-CM |
| S31.541D | Puncture wound with foreign body of unspecified external genital organs, male, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S31.541S | Puncture wound with foreign body of unspecified external genital organs, male, sequela                                       | Diagnosis     | ICD-10-CM |
| S31.542  | Puncture wound with foreign body of unspecified external genital organs, female  | Diagnosis     | ICD-10-CM |
| S31.542A | Puncture wound with foreign body of unspecified external genital organs, female, initial encounter                           | Diagnosis     | ICD-10-CM |
| S31.542D | Puncture wound with foreign body of unspecified external genital organs, female, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S31.542S | Puncture wound with foreign body of unspecified external genital organs, female, sequela                                     | Diagnosis     | ICD-10-CM |
| S31.55   | Open bite of unspecified external genital organs   | Diagnosis     | ICD-10-CM |
| S31.551  | Open bite of unspecified external genital organs, male   | Diagnosis     | ICD-10-CM |
| S31.551A | Open bite of unspecified external genital organs, male, initial encounter  | Diagnosis     | ICD-10-CM |
| S31.551D | Open bite of unspecified external genital organs, male, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S31.551S | Open bite of unspecified external genital organs, male, sequela  | Diagnosis     | ICD-10-CM |
| S31.552  | Open bite of unspecified external genital organs, female   | Diagnosis     | ICD-10-CM |
| S31.552A | Open bite of unspecified external genital organs, female, initial encounter  | Diagnosis     | ICD-10-CM |
| S31.552D | Open bite of unspecified external genital organs, female, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S31.552S | Open bite of unspecified external genital organs, female, sequela  | Diagnosis     | ICD-10-CM |
| S31.6    | Open wound of abdominal wall with penetration into peritoneal cavity   | Diagnosis     | ICD-10-CM |
| S31.60   | Unspecified open wound of abdominal wall with penetration into peritoneal cavity   | Diagnosis     | ICD-10-CM |
| S31.600  | Unspecified open wound of abdominal wall, right upper quadrant with penetration into peritoneal cavity                       | Diagnosis     | ICD-10-CM |
| S31.600A | Unspecified open wound of abdominal wall, right upper quadrant with penetration into peritoneal cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.600D | Unspecified open wound of abdominal wall, right upper quadrant with penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.600S | Unspecified open wound of abdominal wall, right upper quadrant with penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |
| S31.601  | Unspecified open wound of abdominal wall, left upper quadrant with penetration into peritoneal cavity                        | Diagnosis     | ICD-10-CM |
| S31.601A | Unspecified open wound of abdominal wall, left upper quadrant with penetration into peritoneal cavity, initial encounter     | Diagnosis     | ICD-10-CM |
| S31.601D | Unspecified open wound of abdominal wall, left upper quadrant with penetration into peritoneal cavity, subsequent encounter  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S31.601S | Unspecified open wound of abdominal wall, left upper quadrant with penetration into peritoneal cavity, sequela                        | Diagnosis     | ICD-10-CM |
| S31.602  | Unspecified open wound of abdominal wall, epigastric region with penetration into peritoneal cavity                                   | Diagnosis     | ICD-10-CM |
| S31.602A | Unspecified open wound of abdominal wall, epigastric region with penetration into peritoneal cavity, initial encounter                | Diagnosis     | ICD-10-CM |
| S31.602D | Unspecified open wound of abdominal wall, epigastric region with penetration into peritoneal cavity, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S31.602S | Unspecified open wound of abdominal wall, epigastric region with penetration into peritoneal cavity, sequela                          | Diagnosis     | ICD-10-CM |
| S31.603  | Unspecified open wound of abdominal wall, right lower quadrant with penetration into peritoneal cavity                                | Diagnosis     | ICD-10-CM |
| S31.603A | Unspecified open wound of abdominal wall, right lower quadrant with penetration into peritoneal cavity, initial encounter             | Diagnosis     | ICD-10-CM |
| S31.603D | Unspecified open wound of abdominal wall, right lower quadrant with penetration into peritoneal cavity, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S31.603S | Unspecified open wound of abdominal wall, right lower quadrant with penetration into peritoneal cavity, sequela                       | Diagnosis     | ICD-10-CM |
| S31.604  | Unspecified open wound of abdominal wall, left lower quadrant with penetration into peritoneal cavity                                 | Diagnosis     | ICD-10-CM |
| S31.604A | Unspecified open wound of abdominal wall, left lower quadrant with penetration into peritoneal cavity, initial encounter              | Diagnosis     | ICD-10-CM |
| S31.604D | Unspecified open wound of abdominal wall, left lower quadrant with penetration into peritoneal cavity, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S31.604S | Unspecified open wound of abdominal wall, left lower quadrant with penetration into peritoneal cavity, sequela                        | Diagnosis     | ICD-10-CM |
| S31.605  | Unspecified open wound of abdominal wall, periumbilic region with penetration into peritoneal cavity                                  | Diagnosis     | ICD-10-CM |
| S31.605A | Unspecified open wound of abdominal wall, periumbilic region with penetration into peritoneal cavity, initial encounter               | Diagnosis     | ICD-10-CM |
| S31.605D | Unspecified open wound of abdominal wall, periumbilic region with penetration into peritoneal cavity, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S31.605S | Unspecified open wound of abdominal wall, periumbilic region with penetration into peritoneal cavity, sequela                         | Diagnosis     | ICD-10-CM |
| S31.609  | Unspecified open wound of abdominal wall, unspecified quadrant with penetration into peritoneal cavity                                | Diagnosis     | ICD-10-CM |
| S31.609A | Unspecified open wound of abdominal wall, unspecified quadrant with penetration into peritoneal cavity, initial encounter             | Diagnosis     | ICD-10-CM |
| S31.609D | Unspecified open wound of abdominal wall, unspecified quadrant with penetration into peritoneal cavity, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S31.609S | Unspecified open wound of abdominal wall, unspecified quadrant with penetration into peritoneal cavity, sequela                       | Diagnosis     | ICD-10-CM |
| S31.61   | Laceration without foreign body of abdominal wall with penetration into peritoneal cavity   | Diagnosis     | ICD-10-CM |
| S31.610  | Laceration without foreign body of abdominal wall, right upper quadrant with penetration into peritoneal cavity                       | Diagnosis     | ICD-10-CM |
| S31.610A | Laceration without foreign body of abdominal wall, right upper quadrant with penetration into peritoneal cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.610D | Laceration without foreign body of abdominal wall, right upper quadrant with penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S31.610S | Laceration without foreign body of abdominal wall, right upper quadrant with penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |
| S31.611  | Laceration without foreign body of abdominal wall, left upper quadrant with penetration into peritoneal cavity                        | Diagnosis     | ICD-10-CM |
| S31.611A | Laceration without foreign body of abdominal wall, left upper quadrant with penetration into peritoneal cavity, initial encounter     | Diagnosis     | ICD-10-CM |
| S31.611D | Laceration without foreign body of abdominal wall, left upper quadrant with penetration into peritoneal cavity, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.611S | Laceration without foreign body of abdominal wall, left upper quadrant with penetration into peritoneal cavity, sequela               | Diagnosis     | ICD-10-CM |
| S31.612  | Laceration without foreign body of abdominal wall, epigastric region with penetration into peritoneal cavity                          | Diagnosis     | ICD-10-CM |
| S31.612A | Laceration without foreign body of abdominal wall, epigastric region with penetration into peritoneal cavity, initial encounter       | Diagnosis     | ICD-10-CM |
| S31.612D | Laceration without foreign body of abdominal wall, epigastric region with penetration into peritoneal cavity, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S31.612S | Laceration without foreign body of abdominal wall, epigastric region with penetration into peritoneal cavity, sequela                 | Diagnosis     | ICD-10-CM |
| S31.613  | Laceration without foreign body of abdominal wall, right lower quadrant with penetration into peritoneal cavity                       | Diagnosis     | ICD-10-CM |
| S31.613A | Laceration without foreign body of abdominal wall, right lower quadrant with penetration into peritoneal cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.613D | Laceration without foreign body of abdominal wall, right lower quadrant with penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.613S | Laceration without foreign body of abdominal wall, right lower quadrant with penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |
| S31.614  | Laceration without foreign body of abdominal wall, left lower quadrant with penetration into peritoneal cavity                        | Diagnosis     | ICD-10-CM |
| S31.614A | Laceration without foreign body of abdominal wall, left lower quadrant with penetration into peritoneal cavity, initial encounter     | Diagnosis     | ICD-10-CM |
| S31.614D | Laceration without foreign body of abdominal wall, left lower quadrant with penetration into peritoneal cavity, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.614S | Laceration without foreign body of abdominal wall, left lower quadrant with penetration into peritoneal cavity, sequela               | Diagnosis     | ICD-10-CM |
| S31.615  | Laceration without foreign body of abdominal wall, periumbilic region with penetration into peritoneal cavity                         | Diagnosis     | ICD-10-CM |
| S31.615A | Laceration without foreign body of abdominal wall, periumbilic region with penetration into peritoneal cavity, initial encounter      | Diagnosis     | ICD-10-CM |
| S31.615D | Laceration without foreign body of abdominal wall, periumbilic region with penetration into peritoneal cavity, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S31.615S | Laceration without foreign body of abdominal wall, periumbilic region with penetration into peritoneal cavity, sequela                | Diagnosis     | ICD-10-CM |
| S31.619  | Laceration without foreign body of abdominal wall, unspecified quadrant with penetration into peritoneal cavity                       | Diagnosis     | ICD-10-CM |
| S31.619A | Laceration without foreign body of abdominal wall, unspecified quadrant with penetration into peritoneal cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.619D | Laceration without foreign body of abdominal wall, unspecified quadrant with penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.619S | Laceration without foreign body of abdominal wall, unspecified quadrant with penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S31.62   | Laceration with foreign body of abdominal wall with penetration into peritoneal cavity   | Diagnosis     | ICD-10-CM |
| S31.620  | Laceration with foreign body of abdominal wall, right upper quadrant with penetration into peritoneal cavity                       | Diagnosis     | ICD-10-CM |
| S31.620A | Laceration with foreign body of abdominal wall, right upper quadrant with penetration into peritoneal cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.620D | Laceration with foreign body of abdominal wall, right upper quadrant with penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.620S | Laceration with foreign body of abdominal wall, right upper quadrant with penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |
| S31.621  | Laceration with foreign body of abdominal wall, left upper quadrant with penetration into peritoneal cavity                        | Diagnosis     | ICD-10-CM |
| S31.621A | Laceration with foreign body of abdominal wall, left upper quadrant with penetration into peritoneal cavity, initial encounter     | Diagnosis     | ICD-10-CM |
| S31.621D | Laceration with foreign body of abdominal wall, left upper quadrant with penetration into peritoneal cavity, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.621S | Laceration with foreign body of abdominal wall, left upper quadrant with penetration into peritoneal cavity, sequela               | Diagnosis     | ICD-10-CM |
| S31.622  | Laceration with foreign body of abdominal wall, epigastric region with penetration into peritoneal cavity                          | Diagnosis     | ICD-10-CM |
| S31.622A | Laceration with foreign body of abdominal wall, epigastric region with penetration into peritoneal cavity, initial encounter       | Diagnosis     | ICD-10-CM |
| S31.622D | Laceration with foreign body of abdominal wall, epigastric region with penetration into peritoneal cavity, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S31.622S | Laceration with foreign body of abdominal wall, epigastric region with penetration into peritoneal cavity, sequela                 | Diagnosis     | ICD-10-CM |
| S31.623  | Laceration with foreign body of abdominal wall, right lower quadrant with penetration into peritoneal cavity                       | Diagnosis     | ICD-10-CM |
| S31.623A | Laceration with foreign body of abdominal wall, right lower quadrant with penetration into peritoneal cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.623D | Laceration with foreign body of abdominal wall, right lower quadrant with penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.623S | Laceration with foreign body of abdominal wall, right lower quadrant with penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |
| S31.624  | Laceration with foreign body of abdominal wall, left lower quadrant with penetration into peritoneal cavity                        | Diagnosis     | ICD-10-CM |
| S31.624A | Laceration with foreign body of abdominal wall, left lower quadrant with penetration into peritoneal cavity, initial encounter     | Diagnosis     | ICD-10-CM |
| S31.624D | Laceration with foreign body of abdominal wall, left lower quadrant with penetration into peritoneal cavity, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.624S | Laceration with foreign body of abdominal wall, left lower quadrant with penetration into peritoneal cavity, sequela               | Diagnosis     | ICD-10-CM |
| S31.625  | Laceration with foreign body of abdominal wall, periumbilic region with penetration into peritoneal cavity                         | Diagnosis     | ICD-10-CM |
| S31.625A | Laceration with foreign body of abdominal wall, periumbilic region with penetration into peritoneal cavity, initial encounter      | Diagnosis     | ICD-10-CM |
| S31.625D | Laceration with foreign body of abdominal wall, periumbilic region with penetration into peritoneal cavity, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S31.625S | Laceration with foreign body of abdominal wall, periumbilic region with penetration into peritoneal cavity, sequela                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S31.629  | Laceration with foreign body of abdominal wall, unspecified quadrant with penetration into peritoneal cavity                              | Diagnosis     | ICD-10-CM |
| S31.629A | Laceration with foreign body of abdominal wall, unspecified quadrant with penetration into peritoneal cavity, initial encounter           | Diagnosis     | ICD-10-CM |
| S31.629D | Laceration with foreign body of abdominal wall, unspecified quadrant with penetration into peritoneal cavity, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S31.629S | Laceration with foreign body of abdominal wall, unspecified quadrant with penetration into peritoneal cavity, sequela                     | Diagnosis     | ICD-10-CM |
| S31.63   | Puncture wound without foreign body of abdominal wall with penetration into peritoneal cavity   | Diagnosis     | ICD-10-CM |
| S31.630  | Puncture wound without foreign body of abdominal wall, right upper quadrant with penetration into peritoneal cavity                       | Diagnosis     | ICD-10-CM |
| S31.630A | Puncture wound without foreign body of abdominal wall, right upper quadrant with penetration into peritoneal cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.630D | Puncture wound without foreign body of abdominal wall, right upper quadrant with penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.630S | Puncture wound without foreign body of abdominal wall, right upper quadrant with penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |
| S31.631  | Puncture wound without foreign body of abdominal wall, left upper quadrant with penetration into peritoneal cavity                        | Diagnosis     | ICD-10-CM |
| S31.631A | Puncture wound without foreign body of abdominal wall, left upper quadrant with penetration into peritoneal cavity, initial encounter     | Diagnosis     | ICD-10-CM |
| S31.631D | Puncture wound without foreign body of abdominal wall, left upper quadrant with penetration into peritoneal cavity, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.631S | Puncture wound without foreign body of abdominal wall, left upper quadrant with penetration into peritoneal cavity, sequela               | Diagnosis     | ICD-10-CM |
| S31.632  | Puncture wound without foreign body of abdominal wall, epigastric region with penetration into peritoneal cavity                          | Diagnosis     | ICD-10-CM |
| S31.632A | Puncture wound without foreign body of abdominal wall, epigastric region with penetration into peritoneal cavity, initial encounter       | Diagnosis     | ICD-10-CM |
| S31.632D | Puncture wound without foreign body of abdominal wall, epigastric region with penetration into peritoneal cavity, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S31.632S | Puncture wound without foreign body of abdominal wall, epigastric region with penetration into peritoneal cavity, sequela                 | Diagnosis     | ICD-10-CM |
| S31.633  | Puncture wound without foreign body of abdominal wall, right lower quadrant with penetration into peritoneal cavity                       | Diagnosis     | ICD-10-CM |
| S31.633A | Puncture wound without foreign body of abdominal wall, right lower quadrant with penetration into peritoneal cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.633D | Puncture wound without foreign body of abdominal wall, right lower quadrant with penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.633S | Puncture wound without foreign body of abdominal wall, right lower quadrant with penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |
| S31.634  | Puncture wound without foreign body of abdominal wall, left lower quadrant with penetration into peritoneal cavity                        | Diagnosis     | ICD-10-CM |
| S31.634A | Puncture wound without foreign body of abdominal wall, left lower quadrant with penetration into peritoneal cavity, initial encounter     | Diagnosis     | ICD-10-CM |
| S31.634D | Puncture wound without foreign body of abdominal wall, left lower quadrant with penetration into peritoneal cavity, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.634S | Puncture wound without foreign body of abdominal wall, left lower quadrant with penetration into peritoneal cavity, sequela               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S31.635  | Puncture wound without foreign body of abdominal wall, periumbilic region with penetration into peritoneal cavity                         | Diagnosis     | ICD-10-CM |
| S31.635A | Puncture wound without foreign body of abdominal wall, periumbilic region with penetration into peritoneal cavity, initial encounter      | Diagnosis     | ICD-10-CM |
| S31.635D | Puncture wound without foreign body of abdominal wall, periumbilic region with penetration into peritoneal cavity, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S31.635S | Puncture wound without foreign body of abdominal wall, periumbilic region with penetration into peritoneal cavity, sequela                | Diagnosis     | ICD-10-CM |
| S31.639  | Puncture wound without foreign body of abdominal wall, unspecified quadrant with penetration into peritoneal cavity                       | Diagnosis     | ICD-10-CM |
| S31.639A | Puncture wound without foreign body of abdominal wall, unspecified quadrant with penetration into peritoneal cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.639D | Puncture wound without foreign body of abdominal wall, unspecified quadrant with penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.639S | Puncture wound without foreign body of abdominal wall, unspecified quadrant with penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |
| S31.64   | Puncture wound with foreign body of abdominal wall with penetration into peritoneal cavity  | Diagnosis     | ICD-10-CM |
| S31.640  | Puncture wound with foreign body of abdominal wall, right upper quadrant with penetration into peritoneal cavity                          | Diagnosis     | ICD-10-CM |
| S31.640A | Puncture wound with foreign body of abdominal wall, right upper quadrant with penetration into peritoneal cavity, initial encounter       | Diagnosis     | ICD-10-CM |
| S31.640D | Puncture wound with foreign body of abdominal wall, right upper quadrant with penetration into peritoneal cavity, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S31.640S | Puncture wound with foreign body of abdominal wall, right upper quadrant with penetration into peritoneal cavity, sequela                 | Diagnosis     | ICD-10-CM |
| S31.641  | Puncture wound with foreign body of abdominal wall, left upper quadrant with penetration into peritoneal cavity                           | Diagnosis     | ICD-10-CM |
| S31.641A | Puncture wound with foreign body of abdominal wall, left upper quadrant with penetration into peritoneal cavity, initial encounter        | Diagnosis     | ICD-10-CM |
| S31.641D | Puncture wound with foreign body of abdominal wall, left upper quadrant with penetration into peritoneal cavity, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S31.641S | Puncture wound with foreign body of abdominal wall, left upper quadrant with penetration into peritoneal cavity, sequela                  | Diagnosis     | ICD-10-CM |
| S31.642  | Puncture wound with foreign body of abdominal wall, epigastric region with penetration into peritoneal cavity                             | Diagnosis     | ICD-10-CM |
| S31.642A | Puncture wound with foreign body of abdominal wall, epigastric region with penetration into peritoneal cavity, initial encounter          | Diagnosis     | ICD-10-CM |
| S31.642D | Puncture wound with foreign body of abdominal wall, epigastric region with penetration into peritoneal cavity, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S31.642S | Puncture wound with foreign body of abdominal wall, epigastric region with penetration into peritoneal cavity, sequela                    | Diagnosis     | ICD-10-CM |
| S31.643  | Puncture wound with foreign body of abdominal wall, right lower quadrant with penetration into peritoneal cavity                          | Diagnosis     | ICD-10-CM |
| S31.643A | Puncture wound with foreign body of abdominal wall, right lower quadrant with penetration into peritoneal cavity, initial encounter       | Diagnosis     | ICD-10-CM |
| S31.643D | Puncture wound with foreign body of abdominal wall, right lower quadrant with penetration into peritoneal cavity, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S31.643S | Puncture wound with foreign body of abdominal wall, right lower quadrant with penetration into peritoneal cavity, sequela                 | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S31.644  | Puncture wound with foreign body of abdominal wall, left lower quadrant with penetration into peritoneal cavity                        | Diagnosis     | ICD-10-CM |
| S31.644A | Puncture wound with foreign body of abdominal wall, left lower quadrant with penetration into peritoneal cavity, initial encounter     | Diagnosis     | ICD-10-CM |
| S31.644D | Puncture wound with foreign body of abdominal wall, left lower quadrant with penetration into peritoneal cavity, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.644S | Puncture wound with foreign body of abdominal wall, left lower quadrant with penetration into peritoneal cavity, sequela               | Diagnosis     | ICD-10-CM |
| S31.645  | Puncture wound with foreign body of abdominal wall, periumbilic region with penetration into peritoneal cavity                         | Diagnosis     | ICD-10-CM |
| S31.645A | Puncture wound with foreign body of abdominal wall, periumbilic region with penetration into peritoneal cavity, initial encounter      | Diagnosis     | ICD-10-CM |
| S31.645D | Puncture wound with foreign body of abdominal wall, periumbilic region with penetration into peritoneal cavity, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S31.645S | Puncture wound with foreign body of abdominal wall, periumbilic region with penetration into peritoneal cavity, sequela                | Diagnosis     | ICD-10-CM |
| S31.649  | Puncture wound with foreign body of abdominal wall, unspecified quadrant with penetration into peritoneal cavity                       | Diagnosis     | ICD-10-CM |
| S31.649A | Puncture wound with foreign body of abdominal wall, unspecified quadrant with penetration into peritoneal cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.649D | Puncture wound with foreign body of abdominal wall, unspecified quadrant with penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.649S | Puncture wound with foreign body of abdominal wall, unspecified quadrant with penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |
| S31.65   | Open bite of abdominal wall with penetration into peritoneal cavity  | Diagnosis     | ICD-10-CM |
| S31.650  | Open bite of abdominal wall, right upper quadrant with penetration into peritoneal cavity  | Diagnosis     | ICD-10-CM |
| S31.650A | Open bite of abdominal wall, right upper quadrant with penetration into peritoneal cavity, initial encounter                           | Diagnosis     | ICD-10-CM |
| S31.650D | Open bite of abdominal wall, right upper quadrant with penetration into peritoneal cavity, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S31.650S | Open bite of abdominal wall, right upper quadrant with penetration into peritoneal cavity, sequela                                     | Diagnosis     | ICD-10-CM |
| S31.651  | Open bite of abdominal wall, left upper quadrant with penetration into peritoneal cavity   | Diagnosis     | ICD-10-CM |
| S31.651A | Open bite of abdominal wall, left upper quadrant with penetration into peritoneal cavity, initial encounter                            | Diagnosis     | ICD-10-CM |
| S31.651D | Open bite of abdominal wall, left upper quadrant with penetration into peritoneal cavity, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S31.651S | Open bite of abdominal wall, left upper quadrant with penetration into peritoneal cavity, sequela                                      | Diagnosis     | ICD-10-CM |
| S31.652  | Open bite of abdominal wall, epigastric region with penetration into peritoneal cavity   | Diagnosis     | ICD-10-CM |
| S31.652A | Open bite of abdominal wall, epigastric region with penetration into peritoneal cavity, initial encounter                              | Diagnosis     | ICD-10-CM |
| S31.652D | Open bite of abdominal wall, epigastric region with penetration into peritoneal cavity, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S31.652S | Open bite of abdominal wall, epigastric region with penetration into peritoneal cavity, sequela  | Diagnosis     | ICD-10-CM |
| S31.653  | Open bite of abdominal wall, right lower quadrant with penetration into peritoneal cavity  | Diagnosis     | ICD-10-CM |
| S31.653A | Open bite of abdominal wall, right lower quadrant with penetration into peritoneal cavity, initial encounter                           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S31.653D | Open bite of abdominal wall, right lower quadrant with penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.653S | Open bite of abdominal wall, right lower quadrant with penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |
| S31.654  | Open bite of abdominal wall, left lower quadrant with penetration into peritoneal cavity                        | Diagnosis     | ICD-10-CM |
| S31.654A | Open bite of abdominal wall, left lower quadrant with penetration into peritoneal cavity, initial encounter     | Diagnosis     | ICD-10-CM |
| S31.654D | Open bite of abdominal wall, left lower quadrant with penetration into peritoneal cavity, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.654S | Open bite of abdominal wall, left lower quadrant with penetration into peritoneal cavity, sequela               | Diagnosis     | ICD-10-CM |
| S31.655  | Open bite of abdominal wall, periumbilic region with penetration into peritoneal cavity                         | Diagnosis     | ICD-10-CM |
| S31.655A | Open bite of abdominal wall, periumbilic region with penetration into peritoneal cavity, initial encounter      | Diagnosis     | ICD-10-CM |
| S31.655D | Open bite of abdominal wall, periumbilic region with penetration into peritoneal cavity, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S31.655S | Open bite of abdominal wall, periumbilic region with penetration into peritoneal cavity, sequela                | Diagnosis     | ICD-10-CM |
| S31.659  | Open bite of abdominal wall, unspecified quadrant with penetration into peritoneal cavity                       | Diagnosis     | ICD-10-CM |
| S31.659A | Open bite of abdominal wall, unspecified quadrant with penetration into peritoneal cavity, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.659D | Open bite of abdominal wall, unspecified quadrant with penetration into peritoneal cavity, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.659S | Open bite of abdominal wall, unspecified quadrant with penetration into peritoneal cavity, sequela              | Diagnosis     | ICD-10-CM |
| S31.8    | Open wound of other parts of abdomen, lower back and pelvis   | Diagnosis     | ICD-10-CM |
| S31.80   | Open wound of unspecified buttock   | Diagnosis     | ICD-10-CM |
| S31.801  | Laceration without foreign body of unspecified buttock  | Diagnosis     | ICD-10-CM |
| S31.801A | Laceration without foreign body of unspecified buttock, initial encounter                                       | Diagnosis     | ICD-10-CM |
| S31.801D | Laceration without foreign body of unspecified buttock, subsequent encounter                                    | Diagnosis     | ICD-10-CM |
| S31.801S | Laceration without foreign body of unspecified buttock, sequela   | Diagnosis     | ICD-10-CM |
| S31.802  | Laceration with foreign body of unspecified buttock   | Diagnosis     | ICD-10-CM |
| S31.802A | Laceration with foreign body of unspecified buttock, initial encounter  | Diagnosis     | ICD-10-CM |
| S31.802D | Laceration with foreign body of unspecified buttock, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S31.802S | Laceration with foreign body of unspecified buttock, sequela  | Diagnosis     | ICD-10-CM |
| S31.803  | Puncture wound without foreign body of unspecified buttock  | Diagnosis     | ICD-10-CM |
| S31.803A | Puncture wound without foreign body of unspecified buttock, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S31.803D | Puncture wound without foreign body of unspecified buttock, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S31.803S | Puncture wound without foreign body of unspecified buttock, sequela   | Diagnosis     | ICD-10-CM |
| S31.804  | Puncture wound with foreign body of unspecified buttock   | Diagnosis     | ICD-10-CM |
| S31.804A | Puncture wound with foreign body of unspecified buttock, initial encounter                                      | Diagnosis     | ICD-10-CM |
| S31.804D | Puncture wound with foreign body of unspecified buttock, subsequent encounter                                   | Diagnosis     | ICD-10-CM |
| S31.804S | Puncture wound with foreign body of unspecified buttock, sequela  | Diagnosis     | ICD-10-CM |
| S31.805  | Open bite of unspecified buttock  | Diagnosis     | ICD-10-CM |
| S31.805A | Open bite of unspecified buttock, initial encounter   | Diagnosis     | ICD-10-CM |
| S31.805D | Open bite of unspecified buttock, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.805S | Open bite of unspecified buttock, sequela   | Diagnosis     | ICD-10-CM |
| S31.809  | Unspecified open wound of unspecified buttock   | Diagnosis     | ICD-10-CM |
| S31.809A | Unspecified open wound of unspecified buttock, initial encounter  | Diagnosis     | ICD-10-CM |
| S31.809D | Unspecified open wound of unspecified buttock, subsequent encounter   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S31.809S | Unspecified open wound of unspecified buttock, sequela                     | Diagnosis     | ICD-10-CM |
| S31.81   | Open wound of right buttock  | Diagnosis     | ICD-10-CM |
| S31.811  | Laceration without foreign body of right buttock                           | Diagnosis     | ICD-10-CM |
| S31.811A | Laceration without foreign body of right buttock, initial encounter        | Diagnosis     | ICD-10-CM |
| S31.811D | Laceration without foreign body of right buttock, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S31.811S | Laceration without foreign body of right buttock, sequela                  | Diagnosis     | ICD-10-CM |
| S31.812  | Laceration with foreign body of right buttock                              | Diagnosis     | ICD-10-CM |
| S31.812A | Laceration with foreign body of right buttock, initial encounter           | Diagnosis     | ICD-10-CM |
| S31.812D | Laceration with foreign body of right buttock, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S31.812S | Laceration with foreign body of right buttock, sequela                     | Diagnosis     | ICD-10-CM |
| S31.813  | Puncture wound without foreign body of right buttock                       | Diagnosis     | ICD-10-CM |
| S31.813A | Puncture wound without foreign body of right buttock, initial encounter    | Diagnosis     | ICD-10-CM |
| S31.813D | Puncture wound without foreign body of right buttock, subsequent encounter | Diagnosis     | ICD-10-CM |
| S31.813S | Puncture wound without foreign body of right buttock, sequela              | Diagnosis     | ICD-10-CM |
| S31.814  | Puncture wound with foreign body of right buttock                          | Diagnosis     | ICD-10-CM |
| S31.814A | Puncture wound with foreign body of right buttock, initial encounter       | Diagnosis     | ICD-10-CM |
| S31.814D | Puncture wound with foreign body of right buttock, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S31.814S | Puncture wound with foreign body of right buttock, sequela                 | Diagnosis     | ICD-10-CM |
| S31.815  | Open bite of right buttock   | Diagnosis     | ICD-10-CM |
| S31.815A | Open bite of right buttock, initial encounter                              | Diagnosis     | ICD-10-CM |
| S31.815D | Open bite of right buttock, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S31.815S | Open bite of right buttock, sequela  | Diagnosis     | ICD-10-CM |
| S31.819  | Unspecified open wound of right buttock                                    | Diagnosis     | ICD-10-CM |
| S31.819A | Unspecified open wound of right buttock, initial encounter                 | Diagnosis     | ICD-10-CM |
| S31.819D | Unspecified open wound of right buttock, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S31.819S | Unspecified open wound of right buttock, sequela                           | Diagnosis     | ICD-10-CM |
| S31.82   | Open wound of left buttock   | Diagnosis     | ICD-10-CM |
| S31.821  | Laceration without foreign body of left buttock                            | Diagnosis     | ICD-10-CM |
| S31.821A | Laceration without foreign body of left buttock, initial encounter         | Diagnosis     | ICD-10-CM |
| S31.821D | Laceration without foreign body of left buttock, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S31.821S | Laceration without foreign body of left buttock, sequela                   | Diagnosis     | ICD-10-CM |
| S31.822  | Laceration with foreign body of left buttock                               | Diagnosis     | ICD-10-CM |
| S31.822A | Laceration with foreign body of left buttock, initial encounter            | Diagnosis     | ICD-10-CM |
| S31.822D | Laceration with foreign body of left buttock, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S31.822S | Laceration with foreign body of left buttock, sequela                      | Diagnosis     | ICD-10-CM |
| S31.823  | Puncture wound without foreign body of left buttock                        | Diagnosis     | ICD-10-CM |
| S31.823A | Puncture wound without foreign body of left buttock, initial encounter     | Diagnosis     | ICD-10-CM |
| S31.823D | Puncture wound without foreign body of left buttock, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.823S | Puncture wound without foreign body of left buttock, sequela               | Diagnosis     | ICD-10-CM |
| S31.824  | Puncture wound with foreign body of left buttock                           | Diagnosis     | ICD-10-CM |
| S31.824A | Puncture wound with foreign body of left buttock, initial encounter        | Diagnosis     | ICD-10-CM |
| S31.824D | Puncture wound with foreign body of left buttock, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S31.824S | Puncture wound with foreign body of left buttock, sequela                  | Diagnosis     | ICD-10-CM |
| S31.825  | Open bite of left buttock  | Diagnosis     | ICD-10-CM |
| S31.825A | Open bite of left buttock, initial encounter                               | Diagnosis     | ICD-10-CM |
| S31.825D | Open bite of left buttock, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S31.825S | Open bite of left buttock, sequela   | Diagnosis     | ICD-10-CM |
| S31.829  | Unspecified open wound of left buttock                                     | Diagnosis     | ICD-10-CM |
| S31.829A | Unspecified open wound of left buttock, initial encounter                  | Diagnosis     | ICD-10-CM |
| S31.829D | Unspecified open wound of left buttock, subsequent encounter               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S31.829S | Unspecified open wound of left buttock, sequela   | Diagnosis     | ICD-10-CM |
| S31.83   | Open wound of anus  | Diagnosis     | ICD-10-CM |
| S31.831  | Laceration without foreign body of anus   | Diagnosis     | ICD-10-CM |
| S31.831A | Laceration without foreign body of anus, initial encounter  | Diagnosis     | ICD-10-CM |
| S31.831D | Laceration without foreign body of anus, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S31.831S | Laceration without foreign body of anus, sequela  | Diagnosis     | ICD-10-CM |
| S31.832  | Laceration with foreign body of anus  | Diagnosis     | ICD-10-CM |
| S31.832A | Laceration with foreign body of anus, initial encounter   | Diagnosis     | ICD-10-CM |
| S31.832D | Laceration with foreign body of anus, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.832S | Laceration with foreign body of anus, sequela   | Diagnosis     | ICD-10-CM |
| S31.833  | Puncture wound without foreign body of anus   | Diagnosis     | ICD-10-CM |
| S31.833A | Puncture wound without foreign body of anus, initial encounter  | Diagnosis     | ICD-10-CM |
| S31.833D | Puncture wound without foreign body of anus, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S31.833S | Puncture wound without foreign body of anus, sequela  | Diagnosis     | ICD-10-CM |
| S31.834  | Puncture wound with foreign body of anus  | Diagnosis     | ICD-10-CM |
| S31.834A | Puncture wound with foreign body of anus, initial encounter   | Diagnosis     | ICD-10-CM |
| S31.834D | Puncture wound with foreign body of anus, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.834S | Puncture wound with foreign body of anus, sequela   | Diagnosis     | ICD-10-CM |
| S31.835  | Open bite of anus   | Diagnosis     | ICD-10-CM |
| S31.835A | Open bite of anus, initial encounter  | Diagnosis     | ICD-10-CM |
| S31.835D | Open bite of anus, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S31.835S | Open bite of anus, sequela  | Diagnosis     | ICD-10-CM |
| S31.839  | Unspecified open wound of anus  | Diagnosis     | ICD-10-CM |
| S31.839A | Unspecified open wound of anus, initial encounter   | Diagnosis     | ICD-10-CM |
| S31.839D | Unspecified open wound of anus, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S31.839S | Unspecified open wound of anus, sequela   | Diagnosis     | ICD-10-CM |
| S32      | Fracture of lumbar spine and pelvis   | Diagnosis     | ICD-10-CM |
| S32.0    | Fracture of lumbar vertebra   | Diagnosis     | ICD-10-CM |
| S32.00   | Fracture of unspecified lumbar vertebra   | Diagnosis     | ICD-10-CM |
| S32.000  | Wedge compression fracture of unspecified lumbar vertebra   | Diagnosis     | ICD-10-CM |
| S32.000A | Wedge compression fracture of unspecified lumbar vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.000B | Wedge compression fracture of unspecified lumbar vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.000D | Wedge compression fracture of unspecified lumbar vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.000G | Wedge compression fracture of unspecified lumbar vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.000K | Wedge compression fracture of unspecified lumbar vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.000S | Wedge compression fracture of unspecified lumbar vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S32.001  | Stable burst fracture of unspecified lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S32.001A | Stable burst fracture of unspecified lumbar vertebra, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S32.001B | Stable burst fracture of unspecified lumbar vertebra, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S32.001D | Stable burst fracture of unspecified lumbar vertebra, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S32.001G | Stable burst fracture of unspecified lumbar vertebra, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S32.001K | Stable burst fracture of unspecified lumbar vertebra, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S32.001S | Stable burst fracture of unspecified lumbar vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S32.002  | Unstable burst fracture of unspecified lumbar vertebra   | Diagnosis     | ICD-10-CM |
| S32.002A | Unstable burst fracture of unspecified lumbar vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.002B | Unstable burst fracture of unspecified lumbar vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.002D | Unstable burst fracture of unspecified lumbar vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.002G | Unstable burst fracture of unspecified lumbar vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.002K | Unstable burst fracture of unspecified lumbar vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.002S | Unstable burst fracture of unspecified lumbar vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S32.008  | Other fracture of unspecified lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S32.008A | Other fracture of unspecified lumbar vertebra, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S32.008B | Other fracture of unspecified lumbar vertebra, initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |
| S32.008D | Other fracture of unspecified lumbar vertebra, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S32.008G | Other fracture of unspecified lumbar vertebra, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S32.008K | Other fracture of unspecified lumbar vertebra, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S32.008S | Other fracture of unspecified lumbar vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S32.009  | Unspecified fracture of unspecified lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S32.009A | Unspecified fracture of unspecified lumbar vertebra, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S32.009B | Unspecified fracture of unspecified lumbar vertebra, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S32.009D | Unspecified fracture of unspecified lumbar vertebra, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S32.009G | Unspecified fracture of unspecified lumbar vertebra, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S32.009K | Unspecified fracture of unspecified lumbar vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S32.009S | Unspecified fracture of unspecified lumbar vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S32.01   | Fracture of first lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S32.010  | Wedge compression fracture of first lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S32.010A | Wedge compression fracture of first lumbar vertebra, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S32.010B | Wedge compression fracture of first lumbar vertebra, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S32.010D | Wedge compression fracture of first lumbar vertebra, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S32.010G | Wedge compression fracture of first lumbar vertebra, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S32.010K | Wedge compression fracture of first lumbar vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S32.010S | Wedge compression fracture of first lumbar vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S32.011  | Stable burst fracture of first lumbar vertebra   | Diagnosis     | ICD-10-CM |
| S32.011A | Stable burst fracture of first lumbar vertebra, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S32.011B | Stable burst fracture of first lumbar vertebra, initial encounter for open fracture                            | Diagnosis     | ICD-10-CM |
| S32.011D | Stable burst fracture of first lumbar vertebra, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S32.011G | Stable burst fracture of first lumbar vertebra, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S32.011K | Stable burst fracture of first lumbar vertebra, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S32.011S | Stable burst fracture of first lumbar vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S32.012  | Unstable burst fracture of first lumbar vertebra   | Diagnosis     | ICD-10-CM |
| S32.012A | Unstable burst fracture of first lumbar vertebra, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S32.012B | Unstable burst fracture of first lumbar vertebra, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S32.012D | Unstable burst fracture of first lumbar vertebra, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S32.012G | Unstable burst fracture of first lumbar vertebra, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S32.012K | Unstable burst fracture of first lumbar vertebra, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S32.012S | Unstable burst fracture of first lumbar vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S32.018  | Other fracture of first lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S32.018A | Other fracture of first lumbar vertebra, initial encounter for closed fracture                               | Diagnosis     | ICD-10-CM |
| S32.018B | Other fracture of first lumbar vertebra, initial encounter for open fracture                                 | Diagnosis     | ICD-10-CM |
| S32.018D | Other fracture of first lumbar vertebra, subsequent encounter for fracture with routine healing              | Diagnosis     | ICD-10-CM |
| S32.018G | Other fracture of first lumbar vertebra, subsequent encounter for fracture with delayed healing              | Diagnosis     | ICD-10-CM |
| S32.018K | Other fracture of first lumbar vertebra, subsequent encounter for fracture with nonunion                     | Diagnosis     | ICD-10-CM |
| S32.018S | Other fracture of first lumbar vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S32.019  | Unspecified fracture of first lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S32.019A | Unspecified fracture of first lumbar vertebra, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S32.019B | Unspecified fracture of first lumbar vertebra, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S32.019D | Unspecified fracture of first lumbar vertebra, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S32.019G | Unspecified fracture of first lumbar vertebra, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S32.019K | Unspecified fracture of first lumbar vertebra, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S32.019S | Unspecified fracture of first lumbar vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S32.02   | Fracture of second lumbar vertebra   | Diagnosis     | ICD-10-CM |
| S32.020  | Wedge compression fracture of second lumbar vertebra   | Diagnosis     | ICD-10-CM |
| S32.020A | Wedge compression fracture of second lumbar vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.020B | Wedge compression fracture of second lumbar vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.020D | Wedge compression fracture of second lumbar vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.020G | Wedge compression fracture of second lumbar vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.020K | Wedge compression fracture of second lumbar vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.020S | Wedge compression fracture of second lumbar vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S32.021  | Stable burst fracture of second lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S32.021A | Stable burst fracture of second lumbar vertebra, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S32.021B | Stable burst fracture of second lumbar vertebra, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S32.021D | Stable burst fracture of second lumbar vertebra, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S32.021G | Stable burst fracture of second lumbar vertebra, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S32.021K | Stable burst fracture of second lumbar vertebra, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S32.021S | Stable burst fracture of second lumbar vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S32.022  | Unstable burst fracture of second lumbar vertebra   | Diagnosis     | ICD-10-CM |
| S32.022A | Unstable burst fracture of second lumbar vertebra, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S32.022B | Unstable burst fracture of second lumbar vertebra, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S32.022D | Unstable burst fracture of second lumbar vertebra, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S32.022G | Unstable burst fracture of second lumbar vertebra, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S32.022K | Unstable burst fracture of second lumbar vertebra, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S32.022S | Unstable burst fracture of second lumbar vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S32.028  | Other fracture of second lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S32.028A | Other fracture of second lumbar vertebra, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S32.028B | Other fracture of second lumbar vertebra, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S32.028D | Other fracture of second lumbar vertebra, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S32.028G | Other fracture of second lumbar vertebra, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S32.028K | Other fracture of second lumbar vertebra, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S32.028S | Other fracture of second lumbar vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S32.029  | Unspecified fracture of second lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S32.029A | Unspecified fracture of second lumbar vertebra, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S32.029B | Unspecified fracture of second lumbar vertebra, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S32.029D | Unspecified fracture of second lumbar vertebra, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S32.029G | Unspecified fracture of second lumbar vertebra, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S32.029K | Unspecified fracture of second lumbar vertebra, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S32.029S | Unspecified fracture of second lumbar vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S32.03   | Fracture of third lumbar vertebra   | Diagnosis     | ICD-10-CM |
| S32.030  | Wedge compression fracture of third lumbar vertebra   | Diagnosis     | ICD-10-CM |
| S32.030A | Wedge compression fracture of third lumbar vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.030B | Wedge compression fracture of third lumbar vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.030D | Wedge compression fracture of third lumbar vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.030G | Wedge compression fracture of third lumbar vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.030K | Wedge compression fracture of third lumbar vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.030S | Wedge compression fracture of third lumbar vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S32.031  | Stable burst fracture of third lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S32.031A | Stable burst fracture of third lumbar vertebra, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S32.031B | Stable burst fracture of third lumbar vertebra, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S32.031D | Stable burst fracture of third lumbar vertebra, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S32.031G | Stable burst fracture of third lumbar vertebra, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S32.031K | Stable burst fracture of third lumbar vertebra, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S32.031S | Stable burst fracture of third lumbar vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S32.032  | Unstable burst fracture of third lumbar vertebra   | Diagnosis     | ICD-10-CM |
| S32.032A | Unstable burst fracture of third lumbar vertebra, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S32.032B | Unstable burst fracture of third lumbar vertebra, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S32.032D | Unstable burst fracture of third lumbar vertebra, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S32.032G | Unstable burst fracture of third lumbar vertebra, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S32.032K | Unstable burst fracture of third lumbar vertebra, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S32.032S | Unstable burst fracture of third lumbar vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S32.038  | Other fracture of third lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S32.038A | Other fracture of third lumbar vertebra, initial encounter for closed fracture                               | Diagnosis     | ICD-10-CM |
| S32.038B | Other fracture of third lumbar vertebra, initial encounter for open fracture                                 | Diagnosis     | ICD-10-CM |
| S32.038D | Other fracture of third lumbar vertebra, subsequent encounter for fracture with routine healing              | Diagnosis     | ICD-10-CM |
| S32.038G | Other fracture of third lumbar vertebra, subsequent encounter for fracture with delayed healing              | Diagnosis     | ICD-10-CM |
| S32.038K | Other fracture of third lumbar vertebra, subsequent encounter for fracture with nonunion                     | Diagnosis     | ICD-10-CM |
| S32.038S | Other fracture of third lumbar vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S32.039  | Unspecified fracture of third lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S32.039A | Unspecified fracture of third lumbar vertebra, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S32.039B | Unspecified fracture of third lumbar vertebra, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S32.039D | Unspecified fracture of third lumbar vertebra, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S32.039G | Unspecified fracture of third lumbar vertebra, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S32.039K | Unspecified fracture of third lumbar vertebra, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S32.039S | Unspecified fracture of third lumbar vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S32.04   | Fracture of fourth lumbar vertebra   | Diagnosis     | ICD-10-CM |
| S32.040  | Wedge compression fracture of fourth lumbar vertebra   | Diagnosis     | ICD-10-CM |
| S32.040A | Wedge compression fracture of fourth lumbar vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.040B | Wedge compression fracture of fourth lumbar vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.040D | Wedge compression fracture of fourth lumbar vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.040G | Wedge compression fracture of fourth lumbar vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.040K | Wedge compression fracture of fourth lumbar vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.040S | Wedge compression fracture of fourth lumbar vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S32.041  | Stable burst fracture of fourth lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S32.041A | Stable burst fracture of fourth lumbar vertebra, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S32.041B | Stable burst fracture of fourth lumbar vertebra, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S32.041D | Stable burst fracture of fourth lumbar vertebra, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S32.041G | Stable burst fracture of fourth lumbar vertebra, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S32.041K | Stable burst fracture of fourth lumbar vertebra, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S32.041S | Stable burst fracture of fourth lumbar vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S32.042  | Unstable burst fracture of fourth lumbar vertebra   | Diagnosis     | ICD-10-CM |
| S32.042A | Unstable burst fracture of fourth lumbar vertebra, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S32.042B | Unstable burst fracture of fourth lumbar vertebra, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S32.042D | Unstable burst fracture of fourth lumbar vertebra, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S32.042G | Unstable burst fracture of fourth lumbar vertebra, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S32.042K | Unstable burst fracture of fourth lumbar vertebra, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S32.042S | Unstable burst fracture of fourth lumbar vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S32.048  | Other fracture of fourth lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S32.048A | Other fracture of fourth lumbar vertebra, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S32.048B | Other fracture of fourth lumbar vertebra, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S32.048D | Other fracture of fourth lumbar vertebra, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S32.048G | Other fracture of fourth lumbar vertebra, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S32.048K | Other fracture of fourth lumbar vertebra, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S32.048S | Other fracture of fourth lumbar vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S32.049  | Unspecified fracture of fourth lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S32.049A | Unspecified fracture of fourth lumbar vertebra, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S32.049B | Unspecified fracture of fourth lumbar vertebra, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S32.049D | Unspecified fracture of fourth lumbar vertebra, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S32.049G | Unspecified fracture of fourth lumbar vertebra, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S32.049K | Unspecified fracture of fourth lumbar vertebra, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S32.049S | Unspecified fracture of fourth lumbar vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S32.05   | Fracture of fifth lumbar vertebra   | Diagnosis     | ICD-10-CM |
| S32.050  | Wedge compression fracture of fifth lumbar vertebra   | Diagnosis     | ICD-10-CM |
| S32.050A | Wedge compression fracture of fifth lumbar vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.050B | Wedge compression fracture of fifth lumbar vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.050D | Wedge compression fracture of fifth lumbar vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.050G | Wedge compression fracture of fifth lumbar vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.050K | Wedge compression fracture of fifth lumbar vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.050S | Wedge compression fracture of fifth lumbar vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S32.051  | Stable burst fracture of fifth lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S32.051A | Stable burst fracture of fifth lumbar vertebra, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S32.051B | Stable burst fracture of fifth lumbar vertebra, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S32.051D | Stable burst fracture of fifth lumbar vertebra, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S32.051G | Stable burst fracture of fifth lumbar vertebra, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S32.051K | Stable burst fracture of fifth lumbar vertebra, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S32.051S | Stable burst fracture of fifth lumbar vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S32.052  | Unstable burst fracture of fifth lumbar vertebra   | Diagnosis     | ICD-10-CM |
| S32.052A | Unstable burst fracture of fifth lumbar vertebra, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.052B | Unstable burst fracture of fifth lumbar vertebra, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.052D | Unstable burst fracture of fifth lumbar vertebra, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.052G | Unstable burst fracture of fifth lumbar vertebra, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.052K | Unstable burst fracture of fifth lumbar vertebra, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.052S | Unstable burst fracture of fifth lumbar vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S32.058  | Other fracture of fifth lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S32.058A | Other fracture of fifth lumbar vertebra, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S32.058B | Other fracture of fifth lumbar vertebra, initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |
| S32.058D | Other fracture of fifth lumbar vertebra, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S32.058G | Other fracture of fifth lumbar vertebra, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S32.058K | Other fracture of fifth lumbar vertebra, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S32.058S | Other fracture of fifth lumbar vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S32.059  | Unspecified fracture of fifth lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S32.059A | Unspecified fracture of fifth lumbar vertebra, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S32.059B | Unspecified fracture of fifth lumbar vertebra, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S32.059D | Unspecified fracture of fifth lumbar vertebra, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S32.059G | Unspecified fracture of fifth lumbar vertebra, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S32.059K | Unspecified fracture of fifth lumbar vertebra, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S32.059S | Unspecified fracture of fifth lumbar vertebra, sequela   | Diagnosis     | ICD-10-CM |
| S32.1    | Fracture of sacrum   | Diagnosis     | ICD-10-CM |
| S32.10   | Unspecified fracture of sacrum   | Diagnosis     | ICD-10-CM |
| S32.10XA | Unspecified fracture of sacrum, initial encounter for closed fracture                                    | Diagnosis     | ICD-10-CM |
| S32.10XB | Unspecified fracture of sacrum, initial encounter for open fracture                                      | Diagnosis     | ICD-10-CM |
| S32.10XD | Unspecified fracture of sacrum, subsequent encounter for fracture with routine healing                   | Diagnosis     | ICD-10-CM |
| S32.10XG | Unspecified fracture of sacrum, subsequent encounter for fracture with delayed healing                   | Diagnosis     | ICD-10-CM |
| S32.10XK | Unspecified fracture of sacrum, subsequent encounter for fracture with nonunion                          | Diagnosis     | ICD-10-CM |
| S32.10XS | Unspecified fracture of sacrum, sequela  | Diagnosis     | ICD-10-CM |
| S32.11   | Zone I fracture of sacrum  | Diagnosis     | ICD-10-CM |
| S32.110  | Nondisplaced Zone I fracture of sacrum   | Diagnosis     | ICD-10-CM |
| S32.110A | Nondisplaced Zone I fracture of sacrum, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S32.110B | Nondisplaced Zone I fracture of sacrum, initial encounter for open fracture                              | Diagnosis     | ICD-10-CM |
| S32.110D | Nondisplaced Zone I fracture of sacrum, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S32.110G | Nondisplaced Zone I fracture of sacrum, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S32.110K | Nondisplaced Zone I fracture of sacrum, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S32.110S | Nondisplaced Zone I fracture of sacrum, sequela  | Diagnosis     | ICD-10-CM |
| S32.111  | Minimally displaced Zone I fracture of sacrum  | Diagnosis     | ICD-10-CM |
| S32.111A | Minimally displaced Zone I fracture of sacrum, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S32.111B | Minimally displaced Zone I fracture of sacrum, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S32.111D | Minimally displaced Zone I fracture of sacrum, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S32.111G | Minimally displaced Zone I fracture of sacrum, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S32.111K | Minimally displaced Zone I fracture of sacrum, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S32.111S | Minimally displaced Zone I fracture of sacrum, sequela   | Diagnosis     | ICD-10-CM |
| S32.112  | Severely displaced Zone I fracture of sacrum   | Diagnosis     | ICD-10-CM |
| S32.112A | Severely displaced Zone I fracture of sacrum, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S32.112B | Severely displaced Zone I fracture of sacrum, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S32.112D | Severely displaced Zone I fracture of sacrum, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S32.112G | Severely displaced Zone I fracture of sacrum, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S32.112K | Severely displaced Zone I fracture of sacrum, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S32.112S | Severely displaced Zone I fracture of sacrum, sequela  | Diagnosis     | ICD-10-CM |
| S32.119  | Unspecified Zone I fracture of sacrum  | Diagnosis     | ICD-10-CM |
| S32.119A | Unspecified Zone I fracture of sacrum, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S32.119B | Unspecified Zone I fracture of sacrum, initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |
| S32.119D | Unspecified Zone I fracture of sacrum, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S32.119G | Unspecified Zone I fracture of sacrum, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S32.119K | Unspecified Zone I fracture of sacrum, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S32.119S | Unspecified Zone I fracture of sacrum, sequela   | Diagnosis     | ICD-10-CM |
| S32.12   | Zone II fracture of sacrum   | Diagnosis     | ICD-10-CM |
| S32.120  | Nondisplaced Zone II fracture of sacrum  | Diagnosis     | ICD-10-CM |
| S32.120A | Nondisplaced Zone II fracture of sacrum, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S32.120B | Nondisplaced Zone II fracture of sacrum, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S32.120D | Nondisplaced Zone II fracture of sacrum, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S32.120G | Nondisplaced Zone II fracture of sacrum, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S32.120K | Nondisplaced Zone II fracture of sacrum, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S32.120S | Nondisplaced Zone II fracture of sacrum, sequela   | Diagnosis     | ICD-10-CM |
| S32.121  | Minimally displaced Zone II fracture of sacrum   | Diagnosis     | ICD-10-CM |
| S32.121A | Minimally displaced Zone II fracture of sacrum, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.121B | Minimally displaced Zone II fracture of sacrum, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.121D | Minimally displaced Zone II fracture of sacrum, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.121G | Minimally displaced Zone II fracture of sacrum, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.121K | Minimally displaced Zone II fracture of sacrum, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S32.121S | Minimally displaced Zone II fracture of sacrum, sequela   | Diagnosis     | ICD-10-CM |
| S32.122  | Severely displaced Zone II fracture of sacrum   | Diagnosis     | ICD-10-CM |
| S32.122A | Severely displaced Zone II fracture of sacrum, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S32.122B | Severely displaced Zone II fracture of sacrum, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S32.122D | Severely displaced Zone II fracture of sacrum, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S32.122G | Severely displaced Zone II fracture of sacrum, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S32.122K | Severely displaced Zone II fracture of sacrum, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S32.122S | Severely displaced Zone II fracture of sacrum, sequela  | Diagnosis     | ICD-10-CM |
| S32.129  | Unspecified Zone II fracture of sacrum  | Diagnosis     | ICD-10-CM |
| S32.129A | Unspecified Zone II fracture of sacrum, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S32.129B | Unspecified Zone II fracture of sacrum, initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |
| S32.129D | Unspecified Zone II fracture of sacrum, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S32.129G | Unspecified Zone II fracture of sacrum, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S32.129K | Unspecified Zone II fracture of sacrum, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S32.129S | Unspecified Zone II fracture of sacrum, sequela   | Diagnosis     | ICD-10-CM |
| S32.13   | Zone III fracture of sacrum   | Diagnosis     | ICD-10-CM |
| S32.130  | Nondisplaced Zone III fracture of sacrum  | Diagnosis     | ICD-10-CM |
| S32.130A | Nondisplaced Zone III fracture of sacrum, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S32.130B | Nondisplaced Zone III fracture of sacrum, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S32.130D | Nondisplaced Zone III fracture of sacrum, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S32.130G | Nondisplaced Zone III fracture of sacrum, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S32.130K | Nondisplaced Zone III fracture of sacrum, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S32.130S | Nondisplaced Zone III fracture of sacrum, sequela   | Diagnosis     | ICD-10-CM |
| S32.131  | Minimally displaced Zone III fracture of sacrum   | Diagnosis     | ICD-10-CM |
| S32.131A | Minimally displaced Zone III fracture of sacrum, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.131B | Minimally displaced Zone III fracture of sacrum, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.131D | Minimally displaced Zone III fracture of sacrum, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.131G | Minimally displaced Zone III fracture of sacrum, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.131K | Minimally displaced Zone III fracture of sacrum, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.131S | Minimally displaced Zone III fracture of sacrum, sequela  | Diagnosis     | ICD-10-CM |
| S32.132  | Severely displaced Zone III fracture of sacrum  | Diagnosis     | ICD-10-CM |
| S32.132A | Severely displaced Zone III fracture of sacrum, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S32.132B | Severely displaced Zone III fracture of sacrum, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S32.132D | Severely displaced Zone III fracture of sacrum, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S32.132G | Severely displaced Zone III fracture of sacrum, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S32.132K | Severely displaced Zone III fracture of sacrum, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S32.132S | Severely displaced Zone III fracture of sacrum, sequela   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S32.139  | Unspecified Zone III fracture of sacrum   | Diagnosis     | ICD-10-CM |
| S32.139A | Unspecified Zone III fracture of sacrum, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.139B | Unspecified Zone III fracture of sacrum, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.139D | Unspecified Zone III fracture of sacrum, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.139G | Unspecified Zone III fracture of sacrum, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.139K | Unspecified Zone III fracture of sacrum, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.139S | Unspecified Zone III fracture of sacrum, sequela  | Diagnosis     | ICD-10-CM |
| S32.14   | Type 1 fracture of sacrum   | Diagnosis     | ICD-10-CM |
| S32.14XA | Type 1 fracture of sacrum, initial encounter for closed fracture                                | Diagnosis     | ICD-10-CM |
| S32.14XB | Type 1 fracture of sacrum, initial encounter for open fracture                                  | Diagnosis     | ICD-10-CM |
| S32.14XD | Type 1 fracture of sacrum, subsequent encounter for fracture with routine healing               | Diagnosis     | ICD-10-CM |
| S32.14XG | Type 1 fracture of sacrum, subsequent encounter for fracture with delayed healing               | Diagnosis     | ICD-10-CM |
| S32.14XK | Type 1 fracture of sacrum, subsequent encounter for fracture with nonunion                      | Diagnosis     | ICD-10-CM |
| S32.14XS | Type 1 fracture of sacrum, sequela  | Diagnosis     | ICD-10-CM |
| S32.15   | Type 2 fracture of sacrum   | Diagnosis     | ICD-10-CM |
| S32.15XA | Type 2 fracture of sacrum, initial encounter for closed fracture                                | Diagnosis     | ICD-10-CM |
| S32.15XB | Type 2 fracture of sacrum, initial encounter for open fracture                                  | Diagnosis     | ICD-10-CM |
| S32.15XD | Type 2 fracture of sacrum, subsequent encounter for fracture with routine healing               | Diagnosis     | ICD-10-CM |
| S32.15XG | Type 2 fracture of sacrum, subsequent encounter for fracture with delayed healing               | Diagnosis     | ICD-10-CM |
| S32.15XK | Type 2 fracture of sacrum, subsequent encounter for fracture with nonunion                      | Diagnosis     | ICD-10-CM |
| S32.15XS | Type 2 fracture of sacrum, sequela  | Diagnosis     | ICD-10-CM |
| S32.16   | Type 3 fracture of sacrum   | Diagnosis     | ICD-10-CM |
| S32.16XA | Type 3 fracture of sacrum, initial encounter for closed fracture                                | Diagnosis     | ICD-10-CM |
| S32.16XB | Type 3 fracture of sacrum, initial encounter for open fracture                                  | Diagnosis     | ICD-10-CM |
| S32.16XD | Type 3 fracture of sacrum, subsequent encounter for fracture with routine healing               | Diagnosis     | ICD-10-CM |
| S32.16XG | Type 3 fracture of sacrum, subsequent encounter for fracture with delayed healing               | Diagnosis     | ICD-10-CM |
| S32.16XK | Type 3 fracture of sacrum, subsequent encounter for fracture with nonunion                      | Diagnosis     | ICD-10-CM |
| S32.16XS | Type 3 fracture of sacrum, sequela  | Diagnosis     | ICD-10-CM |
| S32.17   | Type 4 fracture of sacrum   | Diagnosis     | ICD-10-CM |
| S32.17XA | Type 4 fracture of sacrum, initial encounter for closed fracture                                | Diagnosis     | ICD-10-CM |
| S32.17XB | Type 4 fracture of sacrum, initial encounter for open fracture                                  | Diagnosis     | ICD-10-CM |
| S32.17XD | Type 4 fracture of sacrum, subsequent encounter for fracture with routine healing               | Diagnosis     | ICD-10-CM |
| S32.17XG | Type 4 fracture of sacrum, subsequent encounter for fracture with delayed healing               | Diagnosis     | ICD-10-CM |
| S32.17XK | Type 4 fracture of sacrum, subsequent encounter for fracture with nonunion                      | Diagnosis     | ICD-10-CM |
| S32.17XS | Type 4 fracture of sacrum, sequela  | Diagnosis     | ICD-10-CM |
| S32.19   | Other fracture of sacrum  | Diagnosis     | ICD-10-CM |
| S32.19XA | Other fracture of sacrum, initial encounter for closed fracture                                 | Diagnosis     | ICD-10-CM |
| S32.19XB | Other fracture of sacrum, initial encounter for open fracture                                   | Diagnosis     | ICD-10-CM |
| S32.19XD | Other fracture of sacrum, subsequent encounter for fracture with routine healing                | Diagnosis     | ICD-10-CM |
| S32.19XG | Other fracture of sacrum, subsequent encounter for fracture with delayed healing                | Diagnosis     | ICD-10-CM |
| S32.19XK | Other fracture of sacrum, subsequent encounter for fracture with nonunion                       | Diagnosis     | ICD-10-CM |
| S32.19XS | Other fracture of sacrum, sequela   | Diagnosis     | ICD-10-CM |
| S32.2    | Fracture of coccyx  | Diagnosis     | ICD-10-CM |
| S32.2XXA | Fracture of coccyx, initial encounter for closed fracture                                       | Diagnosis     | ICD-10-CM |
| S32.2XXB | Fracture of coccyx, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S32.2XXD | Fracture of coccyx, subsequent encounter for fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S32.2XXG | Fracture of coccyx, subsequent encounter for fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S32.2XXK | Fracture of coccyx, subsequent encounter for fracture with nonunion                             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S32.2XXS | Fracture of coccyx, sequela  | Diagnosis     | ICD-10-CM |
| S32.3    | Fracture of ilium  | Diagnosis     | ICD-10-CM |
| S32.30   | Unspecified fracture of ilium  | Diagnosis     | ICD-10-CM |
| S32.301  | Unspecified fracture of right ilium  | Diagnosis     | ICD-10-CM |
| S32.301A | Unspecified fracture of right ilium, initial encounter for closed fracture                               | Diagnosis     | ICD-10-CM |
| S32.301B | Unspecified fracture of right ilium, initial encounter for open fracture                                 | Diagnosis     | ICD-10-CM |
| S32.301D | Unspecified fracture of right ilium, subsequent encounter for fracture with routine healing              | Diagnosis     | ICD-10-CM |
| S32.301G | Unspecified fracture of right ilium, subsequent encounter for fracture with delayed healing              | Diagnosis     | ICD-10-CM |
| S32.301K | Unspecified fracture of right ilium, subsequent encounter for fracture with nonunion                     | Diagnosis     | ICD-10-CM |
| S32.301S | Unspecified fracture of right ilium, sequela   | Diagnosis     | ICD-10-CM |
| S32.302  | Unspecified fracture of left ilium   | Diagnosis     | ICD-10-CM |
| S32.302A | Unspecified fracture of left ilium, initial encounter for closed fracture                                | Diagnosis     | ICD-10-CM |
| S32.302B | Unspecified fracture of left ilium, initial encounter for open fracture                                  | Diagnosis     | ICD-10-CM |
| S32.302D | Unspecified fracture of left ilium, subsequent encounter for fracture with routine healing               | Diagnosis     | ICD-10-CM |
| S32.302G | Unspecified fracture of left ilium, subsequent encounter for fracture with delayed healing               | Diagnosis     | ICD-10-CM |
| S32.302K | Unspecified fracture of left ilium, subsequent encounter for fracture with nonunion                      | Diagnosis     | ICD-10-CM |
| S32.302S | Unspecified fracture of left ilium, sequela  | Diagnosis     | ICD-10-CM |
| S32.309  | Unspecified fracture of unspecified ilium  | Diagnosis     | ICD-10-CM |
| S32.309A | Unspecified fracture of unspecified ilium, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S32.309B | Unspecified fracture of unspecified ilium, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S32.309D | Unspecified fracture of unspecified ilium, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S32.309G | Unspecified fracture of unspecified ilium, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S32.309K | Unspecified fracture of unspecified ilium, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S32.309S | Unspecified fracture of unspecified ilium, sequela   | Diagnosis     | ICD-10-CM |
| S32.31   | Avulsion fracture of ilium   | Diagnosis     | ICD-10-CM |
| S32.311  | Displaced avulsion fracture of right ilium   | Diagnosis     | ICD-10-CM |
| S32.311A | Displaced avulsion fracture of right ilium, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S32.311B | Displaced avulsion fracture of right ilium, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S32.311D | Displaced avulsion fracture of right ilium, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S32.311G | Displaced avulsion fracture of right ilium, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S32.311K | Displaced avulsion fracture of right ilium, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S32.311S | Displaced avulsion fracture of right ilium, sequela  | Diagnosis     | ICD-10-CM |
| S32.312  | Displaced avulsion fracture of left ilium  | Diagnosis     | ICD-10-CM |
| S32.312A | Displaced avulsion fracture of left ilium, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S32.312B | Displaced avulsion fracture of left ilium, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S32.312D | Displaced avulsion fracture of left ilium, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S32.312G | Displaced avulsion fracture of left ilium, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S32.312K | Displaced avulsion fracture of left ilium, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S32.312S | Displaced avulsion fracture of left ilium, sequela   | Diagnosis     | ICD-10-CM |
| S32.313  | Displaced avulsion fracture of unspecified ilium   | Diagnosis     | ICD-10-CM |
| S32.313A | Displaced avulsion fracture of unspecified ilium, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.313B | Displaced avulsion fracture of unspecified ilium, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.313D | Displaced avulsion fracture of unspecified ilium, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S32.313G | Displaced avulsion fracture of unspecified ilium, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S32.313K | Displaced avulsion fracture of unspecified ilium, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S32.313S | Displaced avulsion fracture of unspecified ilium, sequela   | Diagnosis     | ICD-10-CM |
| S32.314  | Nondisplaced avulsion fracture of right ilium   | Diagnosis     | ICD-10-CM |
| S32.314A | Nondisplaced avulsion fracture of right ilium, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S32.314B | Nondisplaced avulsion fracture of right ilium, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S32.314D | Nondisplaced avulsion fracture of right ilium, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S32.314G | Nondisplaced avulsion fracture of right ilium, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S32.314K | Nondisplaced avulsion fracture of right ilium, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S32.314S | Nondisplaced avulsion fracture of right ilium, sequela  | Diagnosis     | ICD-10-CM |
| S32.315  | Nondisplaced avulsion fracture of left ilium  | Diagnosis     | ICD-10-CM |
| S32.315A | Nondisplaced avulsion fracture of left ilium, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S32.315B | Nondisplaced avulsion fracture of left ilium, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S32.315D | Nondisplaced avulsion fracture of left ilium, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S32.315G | Nondisplaced avulsion fracture of left ilium, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S32.315K | Nondisplaced avulsion fracture of left ilium, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S32.315S | Nondisplaced avulsion fracture of left ilium, sequela   | Diagnosis     | ICD-10-CM |
| S32.316  | Nondisplaced avulsion fracture of unspecified ilium   | Diagnosis     | ICD-10-CM |
| S32.316A | Nondisplaced avulsion fracture of unspecified ilium, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.316B | Nondisplaced avulsion fracture of unspecified ilium, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.316D | Nondisplaced avulsion fracture of unspecified ilium, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.316G | Nondisplaced avulsion fracture of unspecified ilium, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.316K | Nondisplaced avulsion fracture of unspecified ilium, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.316S | Nondisplaced avulsion fracture of unspecified ilium, sequela  | Diagnosis     | ICD-10-CM |
| S32.39   | Other fracture of ilium   | Diagnosis     | ICD-10-CM |
| S32.391  | Other fracture of right ilium   | Diagnosis     | ICD-10-CM |
| S32.391A | Other fracture of right ilium, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S32.391B | Other fracture of right ilium, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S32.391D | Other fracture of right ilium, subsequent encounter for fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S32.391G | Other fracture of right ilium, subsequent encounter for fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S32.391K | Other fracture of right ilium, subsequent encounter for fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S32.391S | Other fracture of right ilium, sequela  | Diagnosis     | ICD-10-CM |
| S32.392  | Other fracture of left ilium  | Diagnosis     | ICD-10-CM |
| S32.392A | Other fracture of left ilium, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S32.392B | Other fracture of left ilium, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S32.392D | Other fracture of left ilium, subsequent encounter for fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S32.392G | Other fracture of left ilium, subsequent encounter for fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S32.392K | Other fracture of left ilium, subsequent encounter for fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S32.392S | Other fracture of left ilium, sequela   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S32.399  | Other fracture of unspecified ilium   | Diagnosis     | ICD-10-CM |
| S32.399A | Other fracture of unspecified ilium, initial encounter for closed fracture                                      | Diagnosis     | ICD-10-CM |
| S32.399B | Other fracture of unspecified ilium, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S32.399D | Other fracture of unspecified ilium, subsequent encounter for fracture with routine healing                     | Diagnosis     | ICD-10-CM |
| S32.399G | Other fracture of unspecified ilium, subsequent encounter for fracture with delayed healing                     | Diagnosis     | ICD-10-CM |
| S32.399K | Other fracture of unspecified ilium, subsequent encounter for fracture with nonunion                            | Diagnosis     | ICD-10-CM |
| S32.399S | Other fracture of unspecified ilium, sequela  | Diagnosis     | ICD-10-CM |
| S32.4    | Fracture of acetabulum  | Diagnosis     | ICD-10-CM |
| S32.40   | Unspecified fracture of acetabulum  | Diagnosis     | ICD-10-CM |
| S32.401  | Unspecified fracture of right acetabulum  | Diagnosis     | ICD-10-CM |
| S32.401A | Unspecified fracture of right acetabulum, initial encounter for closed fracture                                 | Diagnosis     | ICD-10-CM |
| S32.401B | Unspecified fracture of right acetabulum, initial encounter for open fracture                                   | Diagnosis     | ICD-10-CM |
| S32.401D | Unspecified fracture of right acetabulum, subsequent encounter for fracture with routine healing                | Diagnosis     | ICD-10-CM |
| S32.401G | Unspecified fracture of right acetabulum, subsequent encounter for fracture with delayed healing                | Diagnosis     | ICD-10-CM |
| S32.401K | Unspecified fracture of right acetabulum, subsequent encounter for fracture with nonunion                       | Diagnosis     | ICD-10-CM |
| S32.401S | Unspecified fracture of right acetabulum, sequela   | Diagnosis     | ICD-10-CM |
| S32.402  | Unspecified fracture of left acetabulum   | Diagnosis     | ICD-10-CM |
| S32.402A | Unspecified fracture of left acetabulum, initial encounter for closed fracture                                  | Diagnosis     | ICD-10-CM |
| S32.402B | Unspecified fracture of left acetabulum, initial encounter for open fracture                                    | Diagnosis     | ICD-10-CM |
| S32.402D | Unspecified fracture of left acetabulum, subsequent encounter for fracture with routine healing                 | Diagnosis     | ICD-10-CM |
| S32.402G | Unspecified fracture of left acetabulum, subsequent encounter for fracture with delayed healing                 | Diagnosis     | ICD-10-CM |
| S32.402K | Unspecified fracture of left acetabulum, subsequent encounter for fracture with nonunion                        | Diagnosis     | ICD-10-CM |
| S32.402S | Unspecified fracture of left acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.409  | Unspecified fracture of unspecified acetabulum  | Diagnosis     | ICD-10-CM |
| S32.409A | Unspecified fracture of unspecified acetabulum, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S32.409B | Unspecified fracture of unspecified acetabulum, initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |
| S32.409D | Unspecified fracture of unspecified acetabulum, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S32.409G | Unspecified fracture of unspecified acetabulum, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S32.409K | Unspecified fracture of unspecified acetabulum, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S32.409S | Unspecified fracture of unspecified acetabulum, sequela   | Diagnosis     | ICD-10-CM |
| S32.41   | Fracture of anterior wall of acetabulum   | Diagnosis     | ICD-10-CM |
| S32.411  | Displaced fracture of anterior wall of right acetabulum   | Diagnosis     | ICD-10-CM |
| S32.411A | Displaced fracture of anterior wall of right acetabulum, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.411B | Displaced fracture of anterior wall of right acetabulum, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.411D | Displaced fracture of anterior wall of right acetabulum, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.411G | Displaced fracture of anterior wall of right acetabulum, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.411K | Displaced fracture of anterior wall of right acetabulum, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.411S | Displaced fracture of anterior wall of right acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.412  | Displaced fracture of anterior wall of left acetabulum  | Diagnosis     | ICD-10-CM |
| S32.412A | Displaced fracture of anterior wall of left acetabulum, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S32.412B | Displaced fracture of anterior wall of left acetabulum, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S32.412D | Displaced fracture of anterior wall of left acetabulum, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S32.412G | Displaced fracture of anterior wall of left acetabulum, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S32.412K | Displaced fracture of anterior wall of left acetabulum, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S32.412S | Displaced fracture of anterior wall of left acetabulum, sequela   | Diagnosis     | ICD-10-CM |
| S32.413  | Displaced fracture of anterior wall of unspecified acetabulum   | Diagnosis     | ICD-10-CM |
| S32.413A | Displaced fracture of anterior wall of unspecified acetabulum, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.413B | Displaced fracture of anterior wall of unspecified acetabulum, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.413D | Displaced fracture of anterior wall of unspecified acetabulum, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.413G | Displaced fracture of anterior wall of unspecified acetabulum, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.413K | Displaced fracture of anterior wall of unspecified acetabulum, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.413S | Displaced fracture of anterior wall of unspecified acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.414  | Nondisplaced fracture of anterior wall of right acetabulum  | Diagnosis     | ICD-10-CM |
| S32.414A | Nondisplaced fracture of anterior wall of right acetabulum, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S32.414B | Nondisplaced fracture of anterior wall of right acetabulum, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S32.414D | Nondisplaced fracture of anterior wall of right acetabulum, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S32.414G | Nondisplaced fracture of anterior wall of right acetabulum, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S32.414K | Nondisplaced fracture of anterior wall of right acetabulum, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S32.414S | Nondisplaced fracture of anterior wall of right acetabulum, sequela   | Diagnosis     | ICD-10-CM |
| S32.415  | Nondisplaced fracture of anterior wall of left acetabulum   | Diagnosis     | ICD-10-CM |
| S32.415A | Nondisplaced fracture of anterior wall of left acetabulum, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S32.415B | Nondisplaced fracture of anterior wall of left acetabulum, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S32.415D | Nondisplaced fracture of anterior wall of left acetabulum, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S32.415G | Nondisplaced fracture of anterior wall of left acetabulum, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S32.415K | Nondisplaced fracture of anterior wall of left acetabulum, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S32.415S | Nondisplaced fracture of anterior wall of left acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.416  | Nondisplaced fracture of anterior wall of unspecified acetabulum  | Diagnosis     | ICD-10-CM |
| S32.416A | Nondisplaced fracture of anterior wall of unspecified acetabulum, initial encounter for closed fracture               | Diagnosis     | ICD-10-CM |
| S32.416B | Nondisplaced fracture of anterior wall of unspecified acetabulum, initial encounter for open fracture                 | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S32.416D | Nondisplaced fracture of anterior wall of unspecified acetabulum, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.416G | Nondisplaced fracture of anterior wall of unspecified acetabulum, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.416K | Nondisplaced fracture of anterior wall of unspecified acetabulum, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.416S | Nondisplaced fracture of anterior wall of unspecified acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.42   | Fracture of posterior wall of acetabulum   | Diagnosis     | ICD-10-CM |
| S32.421  | Displaced fracture of posterior wall of right acetabulum   | Diagnosis     | ICD-10-CM |
| S32.421A | Displaced fracture of posterior wall of right acetabulum, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S32.421B | Displaced fracture of posterior wall of right acetabulum, initial encounter for open fracture                            | Diagnosis     | ICD-10-CM |
| S32.421D | Displaced fracture of posterior wall of right acetabulum, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S32.421G | Displaced fracture of posterior wall of right acetabulum, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S32.421K | Displaced fracture of posterior wall of right acetabulum, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S32.421S | Displaced fracture of posterior wall of right acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.422  | Displaced fracture of posterior wall of left acetabulum  | Diagnosis     | ICD-10-CM |
| S32.422A | Displaced fracture of posterior wall of left acetabulum, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S32.422B | Displaced fracture of posterior wall of left acetabulum, initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |
| S32.422D | Displaced fracture of posterior wall of left acetabulum, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S32.422G | Displaced fracture of posterior wall of left acetabulum, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S32.422K | Displaced fracture of posterior wall of left acetabulum, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S32.422S | Displaced fracture of posterior wall of left acetabulum, sequela   | Diagnosis     | ICD-10-CM |
| S32.423  | Displaced fracture of posterior wall of unspecified acetabulum   | Diagnosis     | ICD-10-CM |
| S32.423A | Displaced fracture of posterior wall of unspecified acetabulum, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S32.423B | Displaced fracture of posterior wall of unspecified acetabulum, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S32.423D | Displaced fracture of posterior wall of unspecified acetabulum, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S32.423G | Displaced fracture of posterior wall of unspecified acetabulum, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S32.423K | Displaced fracture of posterior wall of unspecified acetabulum, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S32.423S | Displaced fracture of posterior wall of unspecified acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.424  | Nondisplaced fracture of posterior wall of right acetabulum  | Diagnosis     | ICD-10-CM |
| S32.424A | Nondisplaced fracture of posterior wall of right acetabulum, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S32.424B | Nondisplaced fracture of posterior wall of right acetabulum, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S32.424D | Nondisplaced fracture of posterior wall of right acetabulum, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S32.424G | Nondisplaced fracture of posterior wall of right acetabulum, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S32.424K | Nondisplaced fracture of posterior wall of right acetabulum, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S32.424S | Nondisplaced fracture of posterior wall of right acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.425  | Nondisplaced fracture of posterior wall of left acetabulum  | Diagnosis     | ICD-10-CM |
| S32.425A | Nondisplaced fracture of posterior wall of left acetabulum, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S32.425B | Nondisplaced fracture of posterior wall of left acetabulum, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S32.425D | Nondisplaced fracture of posterior wall of left acetabulum, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S32.425G | Nondisplaced fracture of posterior wall of left acetabulum, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S32.425K | Nondisplaced fracture of posterior wall of left acetabulum, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S32.425S | Nondisplaced fracture of posterior wall of left acetabulum, sequela   | Diagnosis     | ICD-10-CM |
| S32.426  | Nondisplaced fracture of posterior wall of unspecified acetabulum   | Diagnosis     | ICD-10-CM |
| S32.426A | Nondisplaced fracture of posterior wall of unspecified acetabulum, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S32.426B | Nondisplaced fracture of posterior wall of unspecified acetabulum, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S32.426D | Nondisplaced fracture of posterior wall of unspecified acetabulum, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S32.426G | Nondisplaced fracture of posterior wall of unspecified acetabulum, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S32.426K | Nondisplaced fracture of posterior wall of unspecified acetabulum, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S32.426S | Nondisplaced fracture of posterior wall of unspecified acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.43   | Fracture of anterior column [iliopubic] of acetabulum   | Diagnosis     | ICD-10-CM |
| S32.431  | Displaced fracture of anterior column [iliopubic] of right acetabulum   | Diagnosis     | ICD-10-CM |
| S32.431A | Displaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.431B | Displaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.431D | Displaced fracture of anterior column [iliopubic] of right acetabulum, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.431G | Displaced fracture of anterior column [iliopubic] of right acetabulum, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.431K | Displaced fracture of anterior column [iliopubic] of right acetabulum, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.431S | Displaced fracture of anterior column [iliopubic] of right acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.432  | Displaced fracture of anterior column [iliopubic] of left acetabulum  | Diagnosis     | ICD-10-CM |
| S32.432A | Displaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S32.432B | Displaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S32.432D | Displaced fracture of anterior column [iliopubic] of left acetabulum, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S32.432G | Displaced fracture of anterior column [iliopubic] of left acetabulum, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S32.432K | Displaced fracture of anterior column [iliopubic] of left acetabulum, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S32.432S | Displaced fracture of anterior column [iliopubic] of left acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.433  | Displaced fracture of anterior column [iliopubic] of unspecified acetabulum  | Diagnosis     | ICD-10-CM |
| S32.433A | Displaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S32.433B | Displaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S32.433D | Displaced fracture of anterior column [iliopubic] of unspecified acetabulum, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S32.433G | Displaced fracture of anterior column [iliopubic] of unspecified acetabulum, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S32.433K | Displaced fracture of anterior column [iliopubic] of unspecified acetabulum, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S32.433S | Displaced fracture of anterior column [iliopubic] of unspecified acetabulum, sequela   | Diagnosis     | ICD-10-CM |
| S32.434  | Nondisplaced fracture of anterior column [iliopubic] of right acetabulum   | Diagnosis     | ICD-10-CM |
| S32.434A | Nondisplaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S32.434B | Nondisplaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S32.434D | Nondisplaced fracture of anterior column [iliopubic] of right acetabulum, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S32.434G | Nondisplaced fracture of anterior column [iliopubic] of right acetabulum, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S32.434K | Nondisplaced fracture of anterior column [iliopubic] of right acetabulum, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S32.434S | Nondisplaced fracture of anterior column [iliopubic] of right acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.435  | Nondisplaced fracture of anterior column [iliopubic] of left acetabulum  | Diagnosis     | ICD-10-CM |
| S32.435A | Nondisplaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S32.435B | Nondisplaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S32.435D | Nondisplaced fracture of anterior column [iliopubic] of left acetabulum, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S32.435G | Nondisplaced fracture of anterior column [iliopubic] of left acetabulum, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S32.435K | Nondisplaced fracture of anterior column [iliopubic] of left acetabulum, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S32.435S | Nondisplaced fracture of anterior column [iliopubic] of left acetabulum, sequela   | Diagnosis     | ICD-10-CM |
| S32.436  | Nondisplaced fracture of anterior column [iliopubic] of unspecified acetabulum   | Diagnosis     | ICD-10-CM |
| S32.436A | Nondisplaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.436B | Nondisplaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.436D | Nondisplaced fracture of anterior column [iliopubic] of unspecified acetabulum, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.436G | Nondisplaced fracture of anterior column [iliopubic] of unspecified acetabulum, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.436K | Nondisplaced fracture of anterior column [iliopubic] of unspecified acetabulum, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S32.436S | Nondisplaced fracture of anterior column [iliopubic] of unspecified acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.44   | Fracture of posterior column [ilioischial] of acetabulum   | Diagnosis     | ICD-10-CM |
| S32.441  | Displaced fracture of posterior column [ilioischial] of right acetabulum   | Diagnosis     | ICD-10-CM |
| S32.441A | Displaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S32.441B | Displaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S32.441D | Displaced fracture of posterior column [ilioischial] of right acetabulum, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S32.441G | Displaced fracture of posterior column [ilioischial] of right acetabulum, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S32.441K | Displaced fracture of posterior column [ilioischial] of right acetabulum, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S32.441S | Displaced fracture of posterior column [ilioischial] of right acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.442  | Displaced fracture of posterior column [ilioischial] of left acetabulum  | Diagnosis     | ICD-10-CM |
| S32.442A | Displaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S32.442B | Displaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S32.442D | Displaced fracture of posterior column [ilioischial] of left acetabulum, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S32.442G | Displaced fracture of posterior column [ilioischial] of left acetabulum, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S32.442K | Displaced fracture of posterior column [ilioischial] of left acetabulum, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S32.442S | Displaced fracture of posterior column [ilioischial] of left acetabulum, sequela   | Diagnosis     | ICD-10-CM |
| S32.443  | Displaced fracture of posterior column [ilioischial] of unspecified acetabulum   | Diagnosis     | ICD-10-CM |
| S32.443A | Displaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.443B | Displaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.443D | Displaced fracture of posterior column [ilioischial] of unspecified acetabulum, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.443G | Displaced fracture of posterior column [ilioischial] of unspecified acetabulum, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.443K | Displaced fracture of posterior column [ilioischial] of unspecified acetabulum, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.443S | Displaced fracture of posterior column [ilioischial] of unspecified acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.444  | Nondisplaced fracture of posterior column [ilioischial] of right acetabulum  | Diagnosis     | ICD-10-CM |
| S32.444A | Nondisplaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S32.444B | Nondisplaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S32.444D | Nondisplaced fracture of posterior column [ilioischial] of right acetabulum, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S32.444G | Nondisplaced fracture of posterior column [ilioischial] of right acetabulum, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S32.444K | Nondisplaced fracture of posterior column [ilioischial] of right acetabulum, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S32.444S | Nondisplaced fracture of posterior column [ilioischial] of right acetabulum, sequela   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S32.445  | Nondisplaced fracture of posterior column [ilioischial] of left acetabulum  | Diagnosis     | ICD-10-CM |
| S32.445A | Nondisplaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S32.445B | Nondisplaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S32.445D | Nondisplaced fracture of posterior column [ilioischial] of left acetabulum, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S32.445G | Nondisplaced fracture of posterior column [ilioischial] of left acetabulum, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S32.445K | Nondisplaced fracture of posterior column [ilioischial] of left acetabulum, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S32.445S | Nondisplaced fracture of posterior column [ilioischial] of left acetabulum, sequela   | Diagnosis     | ICD-10-CM |
| S32.446  | Nondisplaced fracture of posterior column [ilioischial] of unspecified acetabulum   | Diagnosis     | ICD-10-CM |
| S32.446A | Nondisplaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.446B | Nondisplaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.446D | Nondisplaced fracture of posterior column [ilioischial] of unspecified acetabulum, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.446G | Nondisplaced fracture of posterior column [ilioischial] of unspecified acetabulum, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.446K | Nondisplaced fracture of posterior column [ilioischial] of unspecified acetabulum, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.446S | Nondisplaced fracture of posterior column [ilioischial] of unspecified acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.45   | Transverse fracture of acetabulum   | Diagnosis     | ICD-10-CM |
| S32.451  | Displaced transverse fracture of right acetabulum   | Diagnosis     | ICD-10-CM |
| S32.451A | Displaced transverse fracture of right acetabulum, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S32.451B | Displaced transverse fracture of right acetabulum, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S32.451D | Displaced transverse fracture of right acetabulum, subsequent encounter for fracture with routine healing                                 | Diagnosis     | ICD-10-CM |
| S32.451G | Displaced transverse fracture of right acetabulum, subsequent encounter for fracture with delayed healing                                 | Diagnosis     | ICD-10-CM |
| S32.451K | Displaced transverse fracture of right acetabulum, subsequent encounter for fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S32.451S | Displaced transverse fracture of right acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.452  | Displaced transverse fracture of left acetabulum  | Diagnosis     | ICD-10-CM |
| S32.452A | Displaced transverse fracture of left acetabulum, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S32.452B | Displaced transverse fracture of left acetabulum, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S32.452D | Displaced transverse fracture of left acetabulum, subsequent encounter for fracture with routine healing                                  | Diagnosis     | ICD-10-CM |
| S32.452G | Displaced transverse fracture of left acetabulum, subsequent encounter for fracture with delayed healing                                  | Diagnosis     | ICD-10-CM |
| S32.452K | Displaced transverse fracture of left acetabulum, subsequent encounter for fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S32.452S | Displaced transverse fracture of left acetabulum, sequela   | Diagnosis     | ICD-10-CM |
| S32.453  | Displaced transverse fracture of unspecified acetabulum   | Diagnosis     | ICD-10-CM |
| S32.453A | Displaced transverse fracture of unspecified acetabulum, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S32.453B | Displaced transverse fracture of unspecified acetabulum, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S32.453D | Displaced transverse fracture of unspecified acetabulum, subsequent encounter for fracture with routine healing                | Diagnosis     | ICD-10-CM |
| S32.453G | Displaced transverse fracture of unspecified acetabulum, subsequent encounter for fracture with delayed healing                | Diagnosis     | ICD-10-CM |
| S32.453K | Displaced transverse fracture of unspecified acetabulum, subsequent encounter for fracture with nonunion                       | Diagnosis     | ICD-10-CM |
| S32.453S | Displaced transverse fracture of unspecified acetabulum, sequela   | Diagnosis     | ICD-10-CM |
| S32.454  | Nondisplaced transverse fracture of right acetabulum   | Diagnosis     | ICD-10-CM |
| S32.454A | Nondisplaced transverse fracture of right acetabulum, initial encounter for closed fracture                                    | Diagnosis     | ICD-10-CM |
| S32.454B | Nondisplaced transverse fracture of right acetabulum, initial encounter for open fracture                                      | Diagnosis     | ICD-10-CM |
| S32.454D | Nondisplaced transverse fracture of right acetabulum, subsequent encounter for fracture with routine healing                   | Diagnosis     | ICD-10-CM |
| S32.454G | Nondisplaced transverse fracture of right acetabulum, subsequent encounter for fracture with delayed healing                   | Diagnosis     | ICD-10-CM |
| S32.454K | Nondisplaced transverse fracture of right acetabulum, subsequent encounter for fracture with nonunion                          | Diagnosis     | ICD-10-CM |
| S32.454S | Nondisplaced transverse fracture of right acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.455  | Nondisplaced transverse fracture of left acetabulum  | Diagnosis     | ICD-10-CM |
| S32.455A | Nondisplaced transverse fracture of left acetabulum, initial encounter for closed fracture                                     | Diagnosis     | ICD-10-CM |
| S32.455B | Nondisplaced transverse fracture of left acetabulum, initial encounter for open fracture                                       | Diagnosis     | ICD-10-CM |
| S32.455D | Nondisplaced transverse fracture of left acetabulum, subsequent encounter for fracture with routine healing                    | Diagnosis     | ICD-10-CM |
| S32.455G | Nondisplaced transverse fracture of left acetabulum, subsequent encounter for fracture with delayed healing                    | Diagnosis     | ICD-10-CM |
| S32.455K | Nondisplaced transverse fracture of left acetabulum, subsequent encounter for fracture with nonunion                           | Diagnosis     | ICD-10-CM |
| S32.455S | Nondisplaced transverse fracture of left acetabulum, sequela   | Diagnosis     | ICD-10-CM |
| S32.456  | Nondisplaced transverse fracture of unspecified acetabulum   | Diagnosis     | ICD-10-CM |
| S32.456A | Nondisplaced transverse fracture of unspecified acetabulum, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S32.456B | Nondisplaced transverse fracture of unspecified acetabulum, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S32.456D | Nondisplaced transverse fracture of unspecified acetabulum, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S32.456G | Nondisplaced transverse fracture of unspecified acetabulum, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S32.456K | Nondisplaced transverse fracture of unspecified acetabulum, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S32.456S | Nondisplaced transverse fracture of unspecified acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.46   | Associated transverse-posterior fracture of acetabulum   | Diagnosis     | ICD-10-CM |
| S32.461  | Displaced associated transverse-posterior fracture of right acetabulum   | Diagnosis     | ICD-10-CM |
| S32.461A | Displaced associated transverse-posterior fracture of right acetabulum, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.461B | Displaced associated transverse-posterior fracture of right acetabulum, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.461D | Displaced associated transverse-posterior fracture of right acetabulum, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.461G | Displaced associated transverse-posterior fracture of right acetabulum, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S32.461K | Displaced associated transverse-posterior fracture of right acetabulum, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S32.461S | Displaced associated transverse-posterior fracture of right acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.462  | Displaced associated transverse-posterior fracture of left acetabulum  | Diagnosis     | ICD-10-CM |
| S32.462A | Displaced associated transverse-posterior fracture of left acetabulum, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S32.462B | Displaced associated transverse-posterior fracture of left acetabulum, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S32.462D | Displaced associated transverse-posterior fracture of left acetabulum, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S32.462G | Displaced associated transverse-posterior fracture of left acetabulum, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S32.462K | Displaced associated transverse-posterior fracture of left acetabulum, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S32.462S | Displaced associated transverse-posterior fracture of left acetabulum, sequela   | Diagnosis     | ICD-10-CM |
| S32.463  | Displaced associated transverse-posterior fracture of unspecified acetabulum   | Diagnosis     | ICD-10-CM |
| S32.463A | Displaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.463B | Displaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.463D | Displaced associated transverse-posterior fracture of unspecified acetabulum, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.463G | Displaced associated transverse-posterior fracture of unspecified acetabulum, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.463K | Displaced associated transverse-posterior fracture of unspecified acetabulum, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.463S | Displaced associated transverse-posterior fracture of unspecified acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.464  | Nondisplaced associated transverse-posterior fracture of right acetabulum  | Diagnosis     | ICD-10-CM |
| S32.464A | Nondisplaced associated transverse-posterior fracture of right acetabulum, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S32.464B | Nondisplaced associated transverse-posterior fracture of right acetabulum, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S32.464D | Nondisplaced associated transverse-posterior fracture of right acetabulum, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S32.464G | Nondisplaced associated transverse-posterior fracture of right acetabulum, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S32.464K | Nondisplaced associated transverse-posterior fracture of right acetabulum, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S32.464S | Nondisplaced associated transverse-posterior fracture of right acetabulum, sequela   | Diagnosis     | ICD-10-CM |
| S32.465  | Nondisplaced associated transverse-posterior fracture of left acetabulum   | Diagnosis     | ICD-10-CM |
| S32.465A | Nondisplaced associated transverse-posterior fracture of left acetabulum, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S32.465B | Nondisplaced associated transverse-posterior fracture of left acetabulum, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S32.465D | Nondisplaced associated transverse-posterior fracture of left acetabulum, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S32.465G | Nondisplaced associated transverse-posterior fracture of left acetabulum, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S32.465K | Nondisplaced associated transverse-posterior fracture of left acetabulum, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S32.465S | Nondisplaced associated transverse-posterior fracture of left acetabulum, sequela   | Diagnosis     | ICD-10-CM |
| S32.466  | Nondisplaced associated transverse-posterior fracture of unspecified acetabulum   | Diagnosis     | ICD-10-CM |
| S32.466A | Nondisplaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.466B | Nondisplaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.466D | Nondisplaced associated transverse-posterior fracture of unspecified acetabulum, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.466G | Nondisplaced associated transverse-posterior fracture of unspecified acetabulum, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.466K | Nondisplaced associated transverse-posterior fracture of unspecified acetabulum, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.466S | Nondisplaced associated transverse-posterior fracture of unspecified acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.47   | Fracture of medial wall of acetabulum   | Diagnosis     | ICD-10-CM |
| S32.471  | Displaced fracture of medial wall of right acetabulum   | Diagnosis     | ICD-10-CM |
| S32.471A | Displaced fracture of medial wall of right acetabulum, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S32.471B | Displaced fracture of medial wall of right acetabulum, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S32.471D | Displaced fracture of medial wall of right acetabulum, subsequent encounter for fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S32.471G | Displaced fracture of medial wall of right acetabulum, subsequent encounter for fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S32.471K | Displaced fracture of medial wall of right acetabulum, subsequent encounter for fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S32.471S | Displaced fracture of medial wall of right acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.472  | Displaced fracture of medial wall of left acetabulum  | Diagnosis     | ICD-10-CM |
| S32.472A | Displaced fracture of medial wall of left acetabulum, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S32.472B | Displaced fracture of medial wall of left acetabulum, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S32.472D | Displaced fracture of medial wall of left acetabulum, subsequent encounter for fracture with routine healing                            | Diagnosis     | ICD-10-CM |
| S32.472G | Displaced fracture of medial wall of left acetabulum, subsequent encounter for fracture with delayed healing                            | Diagnosis     | ICD-10-CM |
| S32.472K | Displaced fracture of medial wall of left acetabulum, subsequent encounter for fracture with nonunion                                   | Diagnosis     | ICD-10-CM |
| S32.472S | Displaced fracture of medial wall of left acetabulum, sequela   | Diagnosis     | ICD-10-CM |
| S32.473  | Displaced fracture of medial wall of unspecified acetabulum   | Diagnosis     | ICD-10-CM |
| S32.473A | Displaced fracture of medial wall of unspecified acetabulum, initial encounter for closed fracture                                      | Diagnosis     | ICD-10-CM |
| S32.473B | Displaced fracture of medial wall of unspecified acetabulum, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S32.473D | Displaced fracture of medial wall of unspecified acetabulum, subsequent encounter for fracture with routine healing                     | Diagnosis     | ICD-10-CM |
| S32.473G | Displaced fracture of medial wall of unspecified acetabulum, subsequent encounter for fracture with delayed healing                     | Diagnosis     | ICD-10-CM |
| S32.473K | Displaced fracture of medial wall of unspecified acetabulum, subsequent encounter for fracture with nonunion                            | Diagnosis     | ICD-10-CM |
| S32.473S | Displaced fracture of medial wall of unspecified acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.474  | Nondisplaced fracture of medial wall of right acetabulum  | Diagnosis     | ICD-10-CM |
| S32.474A | Nondisplaced fracture of medial wall of right acetabulum, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S32.474B | Nondisplaced fracture of medial wall of right acetabulum, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S32.474D | Nondisplaced fracture of medial wall of right acetabulum, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S32.474G | Nondisplaced fracture of medial wall of right acetabulum, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S32.474K | Nondisplaced fracture of medial wall of right acetabulum, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S32.474S | Nondisplaced fracture of medial wall of right acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.475  | Nondisplaced fracture of medial wall of left acetabulum  | Diagnosis     | ICD-10-CM |
| S32.475A | Nondisplaced fracture of medial wall of left acetabulum, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S32.475B | Nondisplaced fracture of medial wall of left acetabulum, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S32.475D | Nondisplaced fracture of medial wall of left acetabulum, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S32.475G | Nondisplaced fracture of medial wall of left acetabulum, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S32.475K | Nondisplaced fracture of medial wall of left acetabulum, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S32.475S | Nondisplaced fracture of medial wall of left acetabulum, sequela   | Diagnosis     | ICD-10-CM |
| S32.476  | Nondisplaced fracture of medial wall of unspecified acetabulum   | Diagnosis     | ICD-10-CM |
| S32.476A | Nondisplaced fracture of medial wall of unspecified acetabulum, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.476B | Nondisplaced fracture of medial wall of unspecified acetabulum, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.476D | Nondisplaced fracture of medial wall of unspecified acetabulum, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.476G | Nondisplaced fracture of medial wall of unspecified acetabulum, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.476K | Nondisplaced fracture of medial wall of unspecified acetabulum, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.476S | Nondisplaced fracture of medial wall of unspecified acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.48   | Dome fracture of acetabulum  | Diagnosis     | ICD-10-CM |
| S32.481  | Displaced dome fracture of right acetabulum  | Diagnosis     | ICD-10-CM |
| S32.481A | Displaced dome fracture of right acetabulum, initial encounter for closed fracture                                     | Diagnosis     | ICD-10-CM |
| S32.481B | Displaced dome fracture of right acetabulum, initial encounter for open fracture                                       | Diagnosis     | ICD-10-CM |
| S32.481D | Displaced dome fracture of right acetabulum, subsequent encounter for fracture with routine healing                    | Diagnosis     | ICD-10-CM |
| S32.481G | Displaced dome fracture of right acetabulum, subsequent encounter for fracture with delayed healing                    | Diagnosis     | ICD-10-CM |
| S32.481K | Displaced dome fracture of right acetabulum, subsequent encounter for fracture with nonunion                           | Diagnosis     | ICD-10-CM |
| S32.481S | Displaced dome fracture of right acetabulum, sequela   | Diagnosis     | ICD-10-CM |
| S32.482  | Displaced dome fracture of left acetabulum   | Diagnosis     | ICD-10-CM |
| S32.482A | Displaced dome fracture of left acetabulum, initial encounter for closed fracture                                      | Diagnosis     | ICD-10-CM |
| S32.482B | Displaced dome fracture of left acetabulum, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S32.482D | Displaced dome fracture of left acetabulum, subsequent encounter for fracture with routine healing                     | Diagnosis     | ICD-10-CM |
| S32.482G | Displaced dome fracture of left acetabulum, subsequent encounter for fracture with delayed healing                     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S32.482K | Displaced dome fracture of left acetabulum, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S32.482S | Displaced dome fracture of left acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.483  | Displaced dome fracture of unspecified acetabulum  | Diagnosis     | ICD-10-CM |
| S32.483A | Displaced dome fracture of unspecified acetabulum, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S32.483B | Displaced dome fracture of unspecified acetabulum, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S32.483D | Displaced dome fracture of unspecified acetabulum, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S32.483G | Displaced dome fracture of unspecified acetabulum, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S32.483K | Displaced dome fracture of unspecified acetabulum, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S32.483S | Displaced dome fracture of unspecified acetabulum, sequela   | Diagnosis     | ICD-10-CM |
| S32.484  | Nondisplaced dome fracture of right acetabulum   | Diagnosis     | ICD-10-CM |
| S32.484A | Nondisplaced dome fracture of right acetabulum, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S32.484B | Nondisplaced dome fracture of right acetabulum, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S32.484D | Nondisplaced dome fracture of right acetabulum, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S32.484G | Nondisplaced dome fracture of right acetabulum, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S32.484K | Nondisplaced dome fracture of right acetabulum, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S32.484S | Nondisplaced dome fracture of right acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.485  | Nondisplaced dome fracture of left acetabulum  | Diagnosis     | ICD-10-CM |
| S32.485A | Nondisplaced dome fracture of left acetabulum, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S32.485B | Nondisplaced dome fracture of left acetabulum, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S32.485D | Nondisplaced dome fracture of left acetabulum, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S32.485G | Nondisplaced dome fracture of left acetabulum, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S32.485K | Nondisplaced dome fracture of left acetabulum, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S32.485S | Nondisplaced dome fracture of left acetabulum, sequela   | Diagnosis     | ICD-10-CM |
| S32.486  | Nondisplaced dome fracture of unspecified acetabulum   | Diagnosis     | ICD-10-CM |
| S32.486A | Nondisplaced dome fracture of unspecified acetabulum, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.486B | Nondisplaced dome fracture of unspecified acetabulum, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.486D | Nondisplaced dome fracture of unspecified acetabulum, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.486G | Nondisplaced dome fracture of unspecified acetabulum, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.486K | Nondisplaced dome fracture of unspecified acetabulum, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.486S | Nondisplaced dome fracture of unspecified acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.49   | Other specified fracture of acetabulum   | Diagnosis     | ICD-10-CM |
| S32.491  | Other specified fracture of right acetabulum   | Diagnosis     | ICD-10-CM |
| S32.491A | Other specified fracture of right acetabulum, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S32.491B | Other specified fracture of right acetabulum, initial encounter for open fracture                            | Diagnosis     | ICD-10-CM |
| S32.491D | Other specified fracture of right acetabulum, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S32.491G | Other specified fracture of right acetabulum, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S32.491K | Other specified fracture of right acetabulum, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S32.491S | Other specified fracture of right acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.492  | Other specified fracture of left acetabulum  | Diagnosis     | ICD-10-CM |
| S32.492A | Other specified fracture of left acetabulum, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S32.492B | Other specified fracture of left acetabulum, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S32.492D | Other specified fracture of left acetabulum, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S32.492G | Other specified fracture of left acetabulum, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S32.492K | Other specified fracture of left acetabulum, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S32.492S | Other specified fracture of left acetabulum, sequela   | Diagnosis     | ICD-10-CM |
| S32.499  | Other specified fracture of unspecified acetabulum   | Diagnosis     | ICD-10-CM |
| S32.499A | Other specified fracture of unspecified acetabulum, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.499B | Other specified fracture of unspecified acetabulum, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.499D | Other specified fracture of unspecified acetabulum, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.499G | Other specified fracture of unspecified acetabulum, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.499K | Other specified fracture of unspecified acetabulum, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.499S | Other specified fracture of unspecified acetabulum, sequela  | Diagnosis     | ICD-10-CM |
| S32.5    | Fracture of pubis  | Diagnosis     | ICD-10-CM |
| S32.50   | Unspecified fracture of pubis  | Diagnosis     | ICD-10-CM |
| S32.501  | Unspecified fracture of right pubis  | Diagnosis     | ICD-10-CM |
| S32.501A | Unspecified fracture of right pubis, initial encounter for closed fracture                                 | Diagnosis     | ICD-10-CM |
| S32.501B | Unspecified fracture of right pubis, initial encounter for open fracture                                   | Diagnosis     | ICD-10-CM |
| S32.501D | Unspecified fracture of right pubis, subsequent encounter for fracture with routine healing                | Diagnosis     | ICD-10-CM |
| S32.501G | Unspecified fracture of right pubis, subsequent encounter for fracture with delayed healing                | Diagnosis     | ICD-10-CM |
| S32.501K | Unspecified fracture of right pubis, subsequent encounter for fracture with nonunion                       | Diagnosis     | ICD-10-CM |
| S32.501S | Unspecified fracture of right pubis, sequela   | Diagnosis     | ICD-10-CM |
| S32.502  | Unspecified fracture of left pubis   | Diagnosis     | ICD-10-CM |
| S32.502A | Unspecified fracture of left pubis, initial encounter for closed fracture                                  | Diagnosis     | ICD-10-CM |
| S32.502B | Unspecified fracture of left pubis, initial encounter for open fracture                                    | Diagnosis     | ICD-10-CM |
| S32.502D | Unspecified fracture of left pubis, subsequent encounter for fracture with routine healing                 | Diagnosis     | ICD-10-CM |
| S32.502G | Unspecified fracture of left pubis, subsequent encounter for fracture with delayed healing                 | Diagnosis     | ICD-10-CM |
| S32.502K | Unspecified fracture of left pubis, subsequent encounter for fracture with nonunion                        | Diagnosis     | ICD-10-CM |
| S32.502S | Unspecified fracture of left pubis, sequela  | Diagnosis     | ICD-10-CM |
| S32.509  | Unspecified fracture of unspecified pubis  | Diagnosis     | ICD-10-CM |
| S32.509A | Unspecified fracture of unspecified pubis, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S32.509B | Unspecified fracture of unspecified pubis, initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |
| S32.509D | Unspecified fracture of unspecified pubis, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S32.509G | Unspecified fracture of unspecified pubis, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S32.509K | Unspecified fracture of unspecified pubis, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S32.509S | Unspecified fracture of unspecified pubis, sequela   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S32.51   | Fracture of superior rim of pubis   | Diagnosis     | ICD-10-CM |
| S32.511  | Fracture of superior rim of right pubis   | Diagnosis     | ICD-10-CM |
| S32.511A | Fracture of superior rim of right pubis, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S32.511B | Fracture of superior rim of right pubis, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S32.511D | Fracture of superior rim of right pubis, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S32.511G | Fracture of superior rim of right pubis, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S32.511K | Fracture of superior rim of right pubis, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S32.511S | Fracture of superior rim of right pubis, sequela  | Diagnosis     | ICD-10-CM |
| S32.512  | Fracture of superior rim of left pubis  | Diagnosis     | ICD-10-CM |
| S32.512A | Fracture of superior rim of left pubis, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S32.512B | Fracture of superior rim of left pubis, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S32.512D | Fracture of superior rim of left pubis, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S32.512G | Fracture of superior rim of left pubis, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S32.512K | Fracture of superior rim of left pubis, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S32.512S | Fracture of superior rim of left pubis, sequela   | Diagnosis     | ICD-10-CM |
| S32.519  | Fracture of superior rim of unspecified pubis   | Diagnosis     | ICD-10-CM |
| S32.519A | Fracture of superior rim of unspecified pubis, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.519B | Fracture of superior rim of unspecified pubis, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.519D | Fracture of superior rim of unspecified pubis, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.519G | Fracture of superior rim of unspecified pubis, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.519K | Fracture of superior rim of unspecified pubis, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.519S | Fracture of superior rim of unspecified pubis, sequela  | Diagnosis     | ICD-10-CM |
| S32.59   | Other specified fracture of pubis   | Diagnosis     | ICD-10-CM |
| S32.591  | Other specified fracture of right pubis   | Diagnosis     | ICD-10-CM |
| S32.591A | Other specified fracture of right pubis, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S32.591B | Other specified fracture of right pubis, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S32.591D | Other specified fracture of right pubis, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S32.591G | Other specified fracture of right pubis, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S32.591K | Other specified fracture of right pubis, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S32.591S | Other specified fracture of right pubis, sequela  | Diagnosis     | ICD-10-CM |
| S32.592  | Other specified fracture of left pubis  | Diagnosis     | ICD-10-CM |
| S32.592A | Other specified fracture of left pubis, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S32.592B | Other specified fracture of left pubis, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S32.592D | Other specified fracture of left pubis, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S32.592G | Other specified fracture of left pubis, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S32.592K | Other specified fracture of left pubis, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S32.592S | Other specified fracture of left pubis, sequela   | Diagnosis     | ICD-10-CM |
| S32.599  | Other specified fracture of unspecified pubis   | Diagnosis     | ICD-10-CM |
| S32.599A | Other specified fracture of unspecified pubis, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.599B | Other specified fracture of unspecified pubis, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S32.599D | Other specified fracture of unspecified pubis, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.599G | Other specified fracture of unspecified pubis, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.599K | Other specified fracture of unspecified pubis, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.599S | Other specified fracture of unspecified pubis, sequela  | Diagnosis     | ICD-10-CM |
| S32.6    | Fracture of ischium   | Diagnosis     | ICD-10-CM |
| S32.60   | Unspecified fracture of ischium   | Diagnosis     | ICD-10-CM |
| S32.601  | Unspecified fracture of right ischium   | Diagnosis     | ICD-10-CM |
| S32.601A | Unspecified fracture of right ischium, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S32.601B | Unspecified fracture of right ischium, initial encounter for open fracture                            | Diagnosis     | ICD-10-CM |
| S32.601D | Unspecified fracture of right ischium, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S32.601G | Unspecified fracture of right ischium, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S32.601K | Unspecified fracture of right ischium, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S32.601S | Unspecified fracture of right ischium, sequela  | Diagnosis     | ICD-10-CM |
| S32.602  | Unspecified fracture of left ischium  | Diagnosis     | ICD-10-CM |
| S32.602A | Unspecified fracture of left ischium, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S32.602B | Unspecified fracture of left ischium, initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |
| S32.602D | Unspecified fracture of left ischium, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S32.602G | Unspecified fracture of left ischium, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S32.602K | Unspecified fracture of left ischium, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S32.602S | Unspecified fracture of left ischium, sequela   | Diagnosis     | ICD-10-CM |
| S32.609  | Unspecified fracture of unspecified ischium   | Diagnosis     | ICD-10-CM |
| S32.609A | Unspecified fracture of unspecified ischium, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S32.609B | Unspecified fracture of unspecified ischium, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S32.609D | Unspecified fracture of unspecified ischium, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S32.609G | Unspecified fracture of unspecified ischium, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S32.609K | Unspecified fracture of unspecified ischium, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S32.609S | Unspecified fracture of unspecified ischium, sequela  | Diagnosis     | ICD-10-CM |
| S32.61   | Avulsion fracture of ischium  | Diagnosis     | ICD-10-CM |
| S32.611  | Displaced avulsion fracture of right ischium  | Diagnosis     | ICD-10-CM |
| S32.611A | Displaced avulsion fracture of right ischium, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S32.611B | Displaced avulsion fracture of right ischium, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S32.611D | Displaced avulsion fracture of right ischium, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S32.611G | Displaced avulsion fracture of right ischium, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S32.611K | Displaced avulsion fracture of right ischium, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S32.611S | Displaced avulsion fracture of right ischium, sequela   | Diagnosis     | ICD-10-CM |
| S32.612  | Displaced avulsion fracture of left ischium   | Diagnosis     | ICD-10-CM |
| S32.612A | Displaced avulsion fracture of left ischium, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S32.612B | Displaced avulsion fracture of left ischium, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S32.612D | Displaced avulsion fracture of left ischium, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S32.612G | Displaced avulsion fracture of left ischium, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S32.612K | Displaced avulsion fracture of left ischium, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S32.612S | Displaced avulsion fracture of left ischium, sequela  | Diagnosis     | ICD-10-CM |
| S32.613  | Displaced avulsion fracture of unspecified ischium  | Diagnosis     | ICD-10-CM |
| S32.613A | Displaced avulsion fracture of unspecified ischium, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S32.613B | Displaced avulsion fracture of unspecified ischium, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S32.613D | Displaced avulsion fracture of unspecified ischium, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S32.613G | Displaced avulsion fracture of unspecified ischium, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S32.613K | Displaced avulsion fracture of unspecified ischium, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S32.613S | Displaced avulsion fracture of unspecified ischium, sequela   | Diagnosis     | ICD-10-CM |
| S32.614  | Nondisplaced avulsion fracture of right ischium   | Diagnosis     | ICD-10-CM |
| S32.614A | Nondisplaced avulsion fracture of right ischium, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S32.614B | Nondisplaced avulsion fracture of right ischium, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S32.614D | Nondisplaced avulsion fracture of right ischium, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S32.614G | Nondisplaced avulsion fracture of right ischium, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S32.614K | Nondisplaced avulsion fracture of right ischium, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S32.614S | Nondisplaced avulsion fracture of right ischium, sequela  | Diagnosis     | ICD-10-CM |
| S32.615  | Nondisplaced avulsion fracture of left ischium  | Diagnosis     | ICD-10-CM |
| S32.615A | Nondisplaced avulsion fracture of left ischium, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S32.615B | Nondisplaced avulsion fracture of left ischium, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S32.615D | Nondisplaced avulsion fracture of left ischium, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S32.615G | Nondisplaced avulsion fracture of left ischium, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S32.615K | Nondisplaced avulsion fracture of left ischium, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S32.615S | Nondisplaced avulsion fracture of left ischium, sequela   | Diagnosis     | ICD-10-CM |
| S32.616  | Nondisplaced avulsion fracture of unspecified ischium   | Diagnosis     | ICD-10-CM |
| S32.616A | Nondisplaced avulsion fracture of unspecified ischium, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.616B | Nondisplaced avulsion fracture of unspecified ischium, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.616D | Nondisplaced avulsion fracture of unspecified ischium, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.616G | Nondisplaced avulsion fracture of unspecified ischium, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.616K | Nondisplaced avulsion fracture of unspecified ischium, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.616S | Nondisplaced avulsion fracture of unspecified ischium, sequela  | Diagnosis     | ICD-10-CM |
| S32.69   | Other specified fracture of ischium   | Diagnosis     | ICD-10-CM |
| S32.691  | Other specified fracture of right ischium   | Diagnosis     | ICD-10-CM |
| S32.691A | Other specified fracture of right ischium, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S32.691B | Other specified fracture of right ischium, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S32.691D | Other specified fracture of right ischium, subsequent encounter for fracture with routine healing                            | Diagnosis     | ICD-10-CM |
| S32.691G | Other specified fracture of right ischium, subsequent encounter for fracture with delayed healing                            | Diagnosis     | ICD-10-CM |
| S32.691K | Other specified fracture of right ischium, subsequent encounter for fracture with nonunion                                   | Diagnosis     | ICD-10-CM |
| S32.691S | Other specified fracture of right ischium, sequela   | Diagnosis     | ICD-10-CM |
| S32.692  | Other specified fracture of left ischium   | Diagnosis     | ICD-10-CM |
| S32.692A | Other specified fracture of left ischium, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S32.692B | Other specified fracture of left ischium, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S32.692D | Other specified fracture of left ischium, subsequent encounter for fracture with routine healing                             | Diagnosis     | ICD-10-CM |
| S32.692G | Other specified fracture of left ischium, subsequent encounter for fracture with delayed healing                             | Diagnosis     | ICD-10-CM |
| S32.692K | Other specified fracture of left ischium, subsequent encounter for fracture with nonunion                                    | Diagnosis     | ICD-10-CM |
| S32.692S | Other specified fracture of left ischium, sequela  | Diagnosis     | ICD-10-CM |
| S32.699  | Other specified fracture of unspecified ischium  | Diagnosis     | ICD-10-CM |
| S32.699A | Other specified fracture of unspecified ischium, initial encounter for closed fracture                                       | Diagnosis     | ICD-10-CM |
| S32.699B | Other specified fracture of unspecified ischium, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S32.699D | Other specified fracture of unspecified ischium, subsequent encounter for fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S32.699G | Other specified fracture of unspecified ischium, subsequent encounter for fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S32.699K | Other specified fracture of unspecified ischium, subsequent encounter for fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S32.699S | Other specified fracture of unspecified ischium, sequela   | Diagnosis     | ICD-10-CM |
| S32.8    | Fracture of other parts of pelvis  | Diagnosis     | ICD-10-CM |
| S32.81   | Multiple fractures of pelvis with disruption of pelvic ring  | Diagnosis     | ICD-10-CM |
| S32.810  | Multiple fractures of pelvis with stable disruption of pelvic ring   | Diagnosis     | ICD-10-CM |
| S32.810A | Multiple fractures of pelvis with stable disruption of pelvic ring, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S32.810B | Multiple fractures of pelvis with stable disruption of pelvic ring, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S32.810D | Multiple fractures of pelvis with stable disruption of pelvic ring, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S32.810G | Multiple fractures of pelvis with stable disruption of pelvic ring, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S32.810K | Multiple fractures of pelvis with stable disruption of pelvic ring, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S32.810S | Multiple fractures of pelvis with stable disruption of pelvic ring, sequela  | Diagnosis     | ICD-10-CM |
| S32.811  | Multiple fractures of pelvis with unstable disruption of pelvic ring   | Diagnosis     | ICD-10-CM |
| S32.811A | Multiple fractures of pelvis with unstable disruption of pelvic ring, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.811B | Multiple fractures of pelvis with unstable disruption of pelvic ring, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.811D | Multiple fractures of pelvis with unstable disruption of pelvic ring, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.811G | Multiple fractures of pelvis with unstable disruption of pelvic ring, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S32.811K | Multiple fractures of pelvis with unstable disruption of pelvic ring, subsequent encounter for fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S32.811S | Multiple fractures of pelvis with unstable disruption of pelvic ring, sequela  | Diagnosis     | ICD-10-CM |
| S32.82   | Multiple fractures of pelvis without disruption of pelvic ring   | Diagnosis     | ICD-10-CM |
| S32.82XA | Multiple fractures of pelvis without disruption of pelvic ring, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S32.82XB | Multiple fractures of pelvis without disruption of pelvic ring, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S32.82XD | Multiple fractures of pelvis without disruption of pelvic ring, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S32.82XG | Multiple fractures of pelvis without disruption of pelvic ring, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S32.82XK | Multiple fractures of pelvis without disruption of pelvic ring, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S32.82XS | Multiple fractures of pelvis without disruption of pelvic ring, sequela  | Diagnosis     | ICD-10-CM |
| S32.89   | Fracture of other parts of pelvis  | Diagnosis     | ICD-10-CM |
| S32.89XA | Fracture of other parts of pelvis, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S32.89XB | Fracture of other parts of pelvis, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S32.89XD | Fracture of other parts of pelvis, subsequent encounter for fracture with routine healing                              | Diagnosis     | ICD-10-CM |
| S32.89XG | Fracture of other parts of pelvis, subsequent encounter for fracture with delayed healing                              | Diagnosis     | ICD-10-CM |
| S32.89XK | Fracture of other parts of pelvis, subsequent encounter for fracture with nonunion                                     | Diagnosis     | ICD-10-CM |
| S32.89XS | Fracture of other parts of pelvis, sequela   | Diagnosis     | ICD-10-CM |
| S32.9    | Fracture of unspecified parts of lumbosacral spine and pelvis  | Diagnosis     | ICD-10-CM |
| S32.9XXA | Fracture of unspecified parts of lumbosacral spine and pelvis, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S32.9XXB | Fracture of unspecified parts of lumbosacral spine and pelvis, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S32.9XXD | Fracture of unspecified parts of lumbosacral spine and pelvis, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S32.9XXG | Fracture of unspecified parts of lumbosacral spine and pelvis, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S32.9XXK | Fracture of unspecified parts of lumbosacral spine and pelvis, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S32.9XXS | Fracture of unspecified parts of lumbosacral spine and pelvis, sequela   | Diagnosis     | ICD-10-CM |
| S33      | Dislocation and sprain of joints and ligaments of lumbar spine and pelvis  | Diagnosis     | ICD-10-CM |
| S33.0    | Traumatic rupture of lumbar intervertebral disc  | Diagnosis     | ICD-10-CM |
| S33.0XXA | Traumatic rupture of lumbar intervertebral disc, initial encounter   | Diagnosis     | ICD-10-CM |
| S33.0XXD | Traumatic rupture of lumbar intervertebral disc, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S33.0XXS | Traumatic rupture of lumbar intervertebral disc, sequela   | Diagnosis     | ICD-10-CM |
| S33.1    | Subluxation and dislocation of lumbar vertebra   | Diagnosis     | ICD-10-CM |
| S33.10   | Subluxation and dislocation of unspecified lumbar vertebra   | Diagnosis     | ICD-10-CM |
| S33.100  | Subluxation of unspecified lumbar vertebra   | Diagnosis     | ICD-10-CM |
| S33.100A | Subluxation of unspecified lumbar vertebra, initial encounter  | Diagnosis     | ICD-10-CM |
| S33.100D | Subluxation of unspecified lumbar vertebra, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S33.100S | Subluxation of unspecified lumbar vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S33.101  | Dislocation of unspecified lumbar vertebra   | Diagnosis     | ICD-10-CM |
| S33.101A | Dislocation of unspecified lumbar vertebra, initial encounter  | Diagnosis     | ICD-10-CM |
| S33.101D | Dislocation of unspecified lumbar vertebra, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S33.101S | Dislocation of unspecified lumbar vertebra, sequela  | Diagnosis     | ICD-10-CM |
| S33.11   | Subluxation and dislocation of L1/L2 lumbar vertebra   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S33.110  | Subluxation of L1/L2 lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S33.110A | Subluxation of L1/L2 lumbar vertebra, initial encounter                           | Diagnosis     | ICD-10-CM |
| S33.110D | Subluxation of L1/L2 lumbar vertebra, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S33.110S | Subluxation of L1/L2 lumbar vertebra, sequela                                     | Diagnosis     | ICD-10-CM |
| S33.111  | Dislocation of L1/L2 lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S33.111A | Dislocation of L1/L2 lumbar vertebra, initial encounter                           | Diagnosis     | ICD-10-CM |
| S33.111D | Dislocation of L1/L2 lumbar vertebra, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S33.111S | Dislocation of L1/L2 lumbar vertebra, sequela                                     | Diagnosis     | ICD-10-CM |
| S33.12   | Subluxation and dislocation of L2/L3 lumbar vertebra                              | Diagnosis     | ICD-10-CM |
| S33.120  | Subluxation of L2/L3 lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S33.120A | Subluxation of L2/L3 lumbar vertebra, initial encounter                           | Diagnosis     | ICD-10-CM |
| S33.120D | Subluxation of L2/L3 lumbar vertebra, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S33.120S | Subluxation of L2/L3 lumbar vertebra, sequela                                     | Diagnosis     | ICD-10-CM |
| S33.121  | Dislocation of L2/L3 lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S33.121A | Dislocation of L2/L3 lumbar vertebra, initial encounter                           | Diagnosis     | ICD-10-CM |
| S33.121D | Dislocation of L2/L3 lumbar vertebra, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S33.121S | Dislocation of L2/L3 lumbar vertebra, sequela                                     | Diagnosis     | ICD-10-CM |
| S33.13   | Subluxation and dislocation of L3/L4 lumbar vertebra                              | Diagnosis     | ICD-10-CM |
| S33.130  | Subluxation of L3/L4 lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S33.130A | Subluxation of L3/L4 lumbar vertebra, initial encounter                           | Diagnosis     | ICD-10-CM |
| S33.130D | Subluxation of L3/L4 lumbar vertebra, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S33.130S | Subluxation of L3/L4 lumbar vertebra, sequela                                     | Diagnosis     | ICD-10-CM |
| S33.131  | Dislocation of L3/L4 lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S33.131A | Dislocation of L3/L4 lumbar vertebra, initial encounter                           | Diagnosis     | ICD-10-CM |
| S33.131D | Dislocation of L3/L4 lumbar vertebra, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S33.131S | Dislocation of L3/L4 lumbar vertebra, sequela                                     | Diagnosis     | ICD-10-CM |
| S33.14   | Subluxation and dislocation of L4/L5 lumbar vertebra                              | Diagnosis     | ICD-10-CM |
| S33.140  | Subluxation of L4/L5 lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S33.140A | Subluxation of L4/L5 lumbar vertebra, initial encounter                           | Diagnosis     | ICD-10-CM |
| S33.140D | Subluxation of L4/L5 lumbar vertebra, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S33.140S | Subluxation of L4/L5 lumbar vertebra, sequela                                     | Diagnosis     | ICD-10-CM |
| S33.141  | Dislocation of L4/L5 lumbar vertebra  | Diagnosis     | ICD-10-CM |
| S33.141A | Dislocation of L4/L5 lumbar vertebra, initial encounter                           | Diagnosis     | ICD-10-CM |
| S33.141D | Dislocation of L4/L5 lumbar vertebra, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S33.141S | Dislocation of L4/L5 lumbar vertebra, sequela                                     | Diagnosis     | ICD-10-CM |
| S33.2    | Dislocation of sacroiliac and sacrococcygeal joint                                | Diagnosis     | ICD-10-CM |
| S33.2XXA | Dislocation of sacroiliac and sacrococcygeal joint, initial encounter             | Diagnosis     | ICD-10-CM |
| S33.2XXD | Dislocation of sacroiliac and sacrococcygeal joint, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S33.2XXS | Dislocation of sacroiliac and sacrococcygeal joint, sequela                       | Diagnosis     | ICD-10-CM |
| S33.3    | Dislocation of other and unspecified parts of lumbar spine and pelvis             | Diagnosis     | ICD-10-CM |
| S33.30   | Dislocation of unspecified parts of lumbar spine and pelvis                       | Diagnosis     | ICD-10-CM |
| S33.30XA | Dislocation of unspecified parts of lumbar spine and pelvis, initial encounter    | Diagnosis     | ICD-10-CM |
| S33.30XD | Dislocation of unspecified parts of lumbar spine and pelvis, subsequent encounter | Diagnosis     | ICD-10-CM |
| S33.30XS | Dislocation of unspecified parts of lumbar spine and pelvis, sequela              | Diagnosis     | ICD-10-CM |
| S33.39   | Dislocation of other parts of lumbar spine and pelvis                             | Diagnosis     | ICD-10-CM |
| S33.39XA | Dislocation of other parts of lumbar spine and pelvis, initial encounter          | Diagnosis     | ICD-10-CM |
| S33.39XD | Dislocation of other parts of lumbar spine and pelvis, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S33.39XS | Dislocation of other parts of lumbar spine and pelvis, sequela                    | Diagnosis     | ICD-10-CM |
| S33.4    | Traumatic rupture of symphysis pubis  | Diagnosis     | ICD-10-CM |
| S33.4XXA | Traumatic rupture of symphysis pubis, initial encounter                           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S33.4XXD | Traumatic rupture of symphysis pubis, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S33.4XXS | Traumatic rupture of symphysis pubis, sequela  | Diagnosis     | ICD-10-CM |
| S33.5    | Sprain of ligaments of lumbar spine  | Diagnosis     | ICD-10-CM |
| S33.5XXA | Sprain of ligaments of lumbar spine, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S33.5XXD | Sprain of ligaments of lumbar spine, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S33.5XXS | Sprain of ligaments of lumbar spine, sequela   | Diagnosis     | ICD-10-CM |
| S33.6    | Sprain of sacroiliac joint   | Diagnosis     | ICD-10-CM |
| S33.6XXA | Sprain of sacroiliac joint, initial encounter  | Diagnosis     | ICD-10-CM |
| S33.6XXD | Sprain of sacroiliac joint, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S33.6XXS | Sprain of sacroiliac joint, sequela  | Diagnosis     | ICD-10-CM |
| S33.8    | Sprain of other parts of lumbar spine and pelvis   | Diagnosis     | ICD-10-CM |
| S33.8XXA | Sprain of other parts of lumbar spine and pelvis, initial encounter                        | Diagnosis     | ICD-10-CM |
| S33.8XXD | Sprain of other parts of lumbar spine and pelvis, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S33.8XXS | Sprain of other parts of lumbar spine and pelvis, sequela                                  | Diagnosis     | ICD-10-CM |
| S33.9    | Sprain of unspecified parts of lumbar spine and pelvis                                     | Diagnosis     | ICD-10-CM |
| S33.9XXA | Sprain of unspecified parts of lumbar spine and pelvis, initial encounter                  | Diagnosis     | ICD-10-CM |
| S33.9XXD | Sprain of unspecified parts of lumbar spine and pelvis, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S33.9XXS | Sprain of unspecified parts of lumbar spine and pelvis, sequela                            | Diagnosis     | ICD-10-CM |
| S34      | Injury of lumbar and sacral spinal cord and nerves at abdomen, lower back and pelvis level | Diagnosis     | ICD-10-CM |
| S34.0    | Concussion and edema of lumbar and sacral spinal cord                                      | Diagnosis     | ICD-10-CM |
| S34.01   | Concussion and edema of lumbar spinal cord   | Diagnosis     | ICD-10-CM |
| S34.01XA | Concussion and edema of lumbar spinal cord, initial encounter                              | Diagnosis     | ICD-10-CM |
| S34.01XD | Concussion and edema of lumbar spinal cord, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S34.01XS | Concussion and edema of lumbar spinal cord, sequela  | Diagnosis     | ICD-10-CM |
| S34.02   | Concussion and edema of sacral spinal cord   | Diagnosis     | ICD-10-CM |
| S34.02XA | Concussion and edema of sacral spinal cord, initial encounter                              | Diagnosis     | ICD-10-CM |
| S34.02XD | Concussion and edema of sacral spinal cord, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S34.02XS | Concussion and edema of sacral spinal cord, sequela  | Diagnosis     | ICD-10-CM |
| S34.1    | Other and unspecified injury of lumbar and sacral spinal cord                              | Diagnosis     | ICD-10-CM |
| S34.10   | Unspecified injury to lumbar spinal cord   | Diagnosis     | ICD-10-CM |
| S34.101  | Unspecified injury to L1 level of lumbar spinal cord                                       | Diagnosis     | ICD-10-CM |
| S34.101A | Unspecified injury to L1 level of lumbar spinal cord, initial encounter                    | Diagnosis     | ICD-10-CM |
| S34.101D | Unspecified injury to L1 level of lumbar spinal cord, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S34.101S | Unspecified injury to L1 level of lumbar spinal cord, sequela                              | Diagnosis     | ICD-10-CM |
| S34.102  | Unspecified injury to L2 level of lumbar spinal cord                                       | Diagnosis     | ICD-10-CM |
| S34.102A | Unspecified injury to L2 level of lumbar spinal cord, initial encounter                    | Diagnosis     | ICD-10-CM |
| S34.102D | Unspecified injury to L2 level of lumbar spinal cord, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S34.102S | Unspecified injury to L2 level of lumbar spinal cord, sequela                              | Diagnosis     | ICD-10-CM |
| S34.103  | Unspecified injury to L3 level of lumbar spinal cord                                       | Diagnosis     | ICD-10-CM |
| S34.103A | Unspecified injury to L3 level of lumbar spinal cord, initial encounter                    | Diagnosis     | ICD-10-CM |
| S34.103D | Unspecified injury to L3 level of lumbar spinal cord, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S34.103S | Unspecified injury to L3 level of lumbar spinal cord, sequela                              | Diagnosis     | ICD-10-CM |
| S34.104  | Unspecified injury to L4 level of lumbar spinal cord                                       | Diagnosis     | ICD-10-CM |
| S34.104A | Unspecified injury to L4 level of lumbar spinal cord, initial encounter                    | Diagnosis     | ICD-10-CM |
| S34.104D | Unspecified injury to L4 level of lumbar spinal cord, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S34.104S | Unspecified injury to L4 level of lumbar spinal cord, sequela                              | Diagnosis     | ICD-10-CM |
| S34.105  | Unspecified injury to L5 level of lumbar spinal cord                                       | Diagnosis     | ICD-10-CM |
| S34.105A | Unspecified injury to L5 level of lumbar spinal cord, initial encounter                    | Diagnosis     | ICD-10-CM |
| S34.105D | Unspecified injury to L5 level of lumbar spinal cord, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S34.105S | Unspecified injury to L5 level of lumbar spinal cord, sequela                              | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S34.109  | Unspecified injury to unspecified level of lumbar spinal cord                       | Diagnosis     | ICD-10-CM |
| S34.109A | Unspecified injury to unspecified level of lumbar spinal cord, initial encounter    | Diagnosis     | ICD-10-CM |
| S34.109D | Unspecified injury to unspecified level of lumbar spinal cord, subsequent encounter | Diagnosis     | ICD-10-CM |
| S34.109S | Unspecified injury to unspecified level of lumbar spinal cord, sequela              | Diagnosis     | ICD-10-CM |
| S34.11   | Complete lesion of lumbar spinal cord   | Diagnosis     | ICD-10-CM |
| S34.111  | Complete lesion of L1 level of lumbar spinal cord                                   | Diagnosis     | ICD-10-CM |
| S34.111A | Complete lesion of L1 level of lumbar spinal cord, initial encounter                | Diagnosis     | ICD-10-CM |
| S34.111D | Complete lesion of L1 level of lumbar spinal cord, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S34.111S | Complete lesion of L1 level of lumbar spinal cord, sequela                          | Diagnosis     | ICD-10-CM |
| S34.112  | Complete lesion of L2 level of lumbar spinal cord                                   | Diagnosis     | ICD-10-CM |
| S34.112A | Complete lesion of L2 level of lumbar spinal cord, initial encounter                | Diagnosis     | ICD-10-CM |
| S34.112D | Complete lesion of L2 level of lumbar spinal cord, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S34.112S | Complete lesion of L2 level of lumbar spinal cord, sequela                          | Diagnosis     | ICD-10-CM |
| S34.113  | Complete lesion of L3 level of lumbar spinal cord                                   | Diagnosis     | ICD-10-CM |
| S34.113A | Complete lesion of L3 level of lumbar spinal cord, initial encounter                | Diagnosis     | ICD-10-CM |
| S34.113D | Complete lesion of L3 level of lumbar spinal cord, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S34.113S | Complete lesion of L3 level of lumbar spinal cord, sequela                          | Diagnosis     | ICD-10-CM |
| S34.114  | Complete lesion of L4 level of lumbar spinal cord                                   | Diagnosis     | ICD-10-CM |
| S34.114A | Complete lesion of L4 level of lumbar spinal cord, initial encounter                | Diagnosis     | ICD-10-CM |
| S34.114D | Complete lesion of L4 level of lumbar spinal cord, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S34.114S | Complete lesion of L4 level of lumbar spinal cord, sequela                          | Diagnosis     | ICD-10-CM |
| S34.115  | Complete lesion of L5 level of lumbar spinal cord                                   | Diagnosis     | ICD-10-CM |
| S34.115A | Complete lesion of L5 level of lumbar spinal cord, initial encounter                | Diagnosis     | ICD-10-CM |
| S34.115D | Complete lesion of L5 level of lumbar spinal cord, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S34.115S | Complete lesion of L5 level of lumbar spinal cord, sequela                          | Diagnosis     | ICD-10-CM |
| S34.119  | Complete lesion of unspecified level of lumbar spinal cord                          | Diagnosis     | ICD-10-CM |
| S34.119A | Complete lesion of unspecified level of lumbar spinal cord, initial encounter       | Diagnosis     | ICD-10-CM |
| S34.119D | Complete lesion of unspecified level of lumbar spinal cord, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S34.119S | Complete lesion of unspecified level of lumbar spinal cord, sequela                 | Diagnosis     | ICD-10-CM |
| S34.12   | Incomplete lesion of lumbar spinal cord   | Diagnosis     | ICD-10-CM |
| S34.121  | Incomplete lesion of L1 level of lumbar spinal cord                                 | Diagnosis     | ICD-10-CM |
| S34.121A | Incomplete lesion of L1 level of lumbar spinal cord, initial encounter              | Diagnosis     | ICD-10-CM |
| S34.121D | Incomplete lesion of L1 level of lumbar spinal cord, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S34.121S | Incomplete lesion of L1 level of lumbar spinal cord, sequela                        | Diagnosis     | ICD-10-CM |
| S34.122  | Incomplete lesion of L2 level of lumbar spinal cord                                 | Diagnosis     | ICD-10-CM |
| S34.122A | Incomplete lesion of L2 level of lumbar spinal cord, initial encounter              | Diagnosis     | ICD-10-CM |
| S34.122D | Incomplete lesion of L2 level of lumbar spinal cord, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S34.122S | Incomplete lesion of L2 level of lumbar spinal cord, sequela                        | Diagnosis     | ICD-10-CM |
| S34.123  | Incomplete lesion of L3 level of lumbar spinal cord                                 | Diagnosis     | ICD-10-CM |
| S34.123A | Incomplete lesion of L3 level of lumbar spinal cord, initial encounter              | Diagnosis     | ICD-10-CM |
| S34.123D | Incomplete lesion of L3 level of lumbar spinal cord, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S34.123S | Incomplete lesion of L3 level of lumbar spinal cord, sequela                        | Diagnosis     | ICD-10-CM |
| S34.124  | Incomplete lesion of L4 level of lumbar spinal cord                                 | Diagnosis     | ICD-10-CM |
| S34.124A | Incomplete lesion of L4 level of lumbar spinal cord, initial encounter              | Diagnosis     | ICD-10-CM |
| S34.124D | Incomplete lesion of L4 level of lumbar spinal cord, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S34.124S | Incomplete lesion of L4 level of lumbar spinal cord, sequela                        | Diagnosis     | ICD-10-CM |
| S34.125  | Incomplete lesion of L5 level of lumbar spinal cord                                 | Diagnosis     | ICD-10-CM |
| S34.125A | Incomplete lesion of L5 level of lumbar spinal cord, initial encounter              | Diagnosis     | ICD-10-CM |
| S34.125D | Incomplete lesion of L5 level of lumbar spinal cord, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S34.125S | Incomplete lesion of L5 level of lumbar spinal cord, sequela                        | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S34.129  | Incomplete lesion of unspecified level of lumbar spinal cord                                | Diagnosis     | ICD-10-CM |
| S34.129A | Incomplete lesion of unspecified level of lumbar spinal cord, initial encounter             | Diagnosis     | ICD-10-CM |
| S34.129D | Incomplete lesion of unspecified level of lumbar spinal cord, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S34.129S | Incomplete lesion of unspecified level of lumbar spinal cord, sequela                       | Diagnosis     | ICD-10-CM |
| S34.13   | Other and unspecified injury to sacral spinal cord  | Diagnosis     | ICD-10-CM |
| S34.131  | Complete lesion of sacral spinal cord   | Diagnosis     | ICD-10-CM |
| S34.131A | Complete lesion of sacral spinal cord, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S34.131D | Complete lesion of sacral spinal cord, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S34.131S | Complete lesion of sacral spinal cord, sequela  | Diagnosis     | ICD-10-CM |
| S34.132  | Incomplete lesion of sacral spinal cord   | Diagnosis     | ICD-10-CM |
| S34.132A | Incomplete lesion of sacral spinal cord, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S34.132D | Incomplete lesion of sacral spinal cord, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S34.132S | Incomplete lesion of sacral spinal cord, sequela  | Diagnosis     | ICD-10-CM |
| S34.139  | Unspecified injury to sacral spinal cord  | Diagnosis     | ICD-10-CM |
| S34.139A | Unspecified injury to sacral spinal cord, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S34.139D | Unspecified injury to sacral spinal cord, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S34.139S | Unspecified injury to sacral spinal cord, sequela   | Diagnosis     | ICD-10-CM |
| S34.2    | Injury of nerve root of lumbar and sacral spine   | Diagnosis     | ICD-10-CM |
| S34.21   | Injury of nerve root of lumbar spine  | Diagnosis     | ICD-10-CM |
| S34.21XA | Injury of nerve root of lumbar spine, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S34.21XD | Injury of nerve root of lumbar spine, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S34.21XS | Injury of nerve root of lumbar spine, sequela   | Diagnosis     | ICD-10-CM |
| S34.22   | Injury of nerve root of sacral spine  | Diagnosis     | ICD-10-CM |
| S34.22XA | Injury of nerve root of sacral spine, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S34.22XD | Injury of nerve root of sacral spine, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S34.22XS | Injury of nerve root of sacral spine, sequela   | Diagnosis     | ICD-10-CM |
| S34.3    | Injury of cauda equina  | Diagnosis     | ICD-10-CM |
| S34.3XXA | Injury of cauda equina, initial encounter   | Diagnosis     | ICD-10-CM |
| S34.3XXD | Injury of cauda equina, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S34.3XXS | Injury of cauda equina, sequela   | Diagnosis     | ICD-10-CM |
| S34.4    | Injury of lumbosacral plexus  | Diagnosis     | ICD-10-CM |
| S34.4XXA | Injury of lumbosacral plexus, initial encounter   | Diagnosis     | ICD-10-CM |
| S34.4XXD | Injury of lumbosacral plexus, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S34.4XXS | Injury of lumbosacral plexus, sequela   | Diagnosis     | ICD-10-CM |
| S34.5    | Injury of lumbar, sacral and pelvic sympathetic nerves                                      | Diagnosis     | ICD-10-CM |
| S34.5XXA | Injury of lumbar, sacral and pelvic sympathetic nerves, initial encounter                   | Diagnosis     | ICD-10-CM |
| S34.5XXD | Injury of lumbar, sacral and pelvic sympathetic nerves, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S34.5XXS | Injury of lumbar, sacral and pelvic sympathetic nerves, sequela                             | Diagnosis     | ICD-10-CM |
| S34.6    | Injury of peripheral nerve(s) at abdomen, lower back and pelvis level                       | Diagnosis     | ICD-10-CM |
| S34.6XXA | Injury of peripheral nerve(s) at abdomen, lower back and pelvis level, initial encounter    | Diagnosis     | ICD-10-CM |
| S34.6XXD | Injury of peripheral nerve(s) at abdomen, lower back and pelvis level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S34.6XXS | Injury of peripheral nerve(s) at abdomen, lower back and pelvis level, sequela              | Diagnosis     | ICD-10-CM |
| S34.8    | Injury of other nerves at abdomen, lower back and pelvis level                              | Diagnosis     | ICD-10-CM |
| S34.8XXA | Injury of other nerves at abdomen, lower back and pelvis level, initial encounter           | Diagnosis     | ICD-10-CM |
| S34.8XXD | Injury of other nerves at abdomen, lower back and pelvis level, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S34.8XXS | Injury of other nerves at abdomen, lower back and pelvis level, sequela                     | Diagnosis     | ICD-10-CM |
| S34.9    | Injury of unspecified nerves at abdomen, lower back and pelvis level                        | Diagnosis     | ICD-10-CM |
| S34.9XXA | Injury of unspecified nerves at abdomen, lower back and pelvis level, initial encounter     | Diagnosis     | ICD-10-CM |
| S34.9XXD | Injury of unspecified nerves at abdomen, lower back and pelvis level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S34.9XXS | Injury of unspecified nerves at abdomen, lower back and pelvis level, sequela               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S35      | Injury of blood vessels at abdomen, lower back and pelvis level | Diagnosis     | ICD-10-CM |
| S35.0    | Injury of abdominal aorta                                       | Diagnosis     | ICD-10-CM |
| S35.00   | Unspecified injury of abdominal aorta                           | Diagnosis     | ICD-10-CM |
| S35.00XA | Unspecified injury of abdominal aorta, initial encounter        | Diagnosis     | ICD-10-CM |
| S35.00XD | Unspecified injury of abdominal aorta, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S35.00XS | Unspecified injury of abdominal aorta, sequela                  | Diagnosis     | ICD-10-CM |
| S35.01   | Minor laceration of abdominal aorta                             | Diagnosis     | ICD-10-CM |
| S35.01XA | Minor laceration of abdominal aorta, initial encounter          | Diagnosis     | ICD-10-CM |
| S35.01XD | Minor laceration of abdominal aorta, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S35.01XS | Minor laceration of abdominal aorta, sequela                    | Diagnosis     | ICD-10-CM |
| S35.02   | Major laceration of abdominal aorta                             | Diagnosis     | ICD-10-CM |
| S35.02XA | Major laceration of abdominal aorta, initial encounter          | Diagnosis     | ICD-10-CM |
| S35.02XD | Major laceration of abdominal aorta, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S35.02XS | Major laceration of abdominal aorta, sequela                    | Diagnosis     | ICD-10-CM |
| S35.09   | Other injury of abdominal aorta                                 | Diagnosis     | ICD-10-CM |
| S35.09XA | Other injury of abdominal aorta, initial encounter              | Diagnosis     | ICD-10-CM |
| S35.09XD | Other injury of abdominal aorta, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S35.09XS | Other injury of abdominal aorta, sequela                        | Diagnosis     | ICD-10-CM |
| S35.1    | Injury of inferior vena cava                                    | Diagnosis     | ICD-10-CM |
| S35.10   | Unspecified injury of inferior vena cava                        | Diagnosis     | ICD-10-CM |
| S35.10XA | Unspecified injury of inferior vena cava, initial encounter     | Diagnosis     | ICD-10-CM |
| S35.10XD | Unspecified injury of inferior vena cava, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S35.10XS | Unspecified injury of inferior vena cava, sequela               | Diagnosis     | ICD-10-CM |
| S35.11   | Minor laceration of inferior vena cava                          | Diagnosis     | ICD-10-CM |
| S35.11XA | Minor laceration of inferior vena cava, initial encounter       | Diagnosis     | ICD-10-CM |
| S35.11XD | Minor laceration of inferior vena cava, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S35.11XS | Minor laceration of inferior vena cava, sequela                 | Diagnosis     | ICD-10-CM |
| S35.12   | Major laceration of inferior vena cava                          | Diagnosis     | ICD-10-CM |
| S35.12XA | Major laceration of inferior vena cava, initial encounter       | Diagnosis     | ICD-10-CM |
| S35.12XD | Major laceration of inferior vena cava, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S35.12XS | Major laceration of inferior vena cava, sequela                 | Diagnosis     | ICD-10-CM |
| S35.19   | Other injury of inferior vena cava                              | Diagnosis     | ICD-10-CM |
| S35.19XA | Other injury of inferior vena cava, initial encounter           | Diagnosis     | ICD-10-CM |
| S35.19XD | Other injury of inferior vena cava, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S35.19XS | Other injury of inferior vena cava, sequela                     | Diagnosis     | ICD-10-CM |
| S35.2    | Injury of celiac or mesenteric artery and branches              | Diagnosis     | ICD-10-CM |
| S35.21   | Injury of celiac artery   | Diagnosis     | ICD-10-CM |
| S35.211  | Minor laceration of celiac artery                               | Diagnosis     | ICD-10-CM |
| S35.211A | Minor laceration of celiac artery, initial encounter            | Diagnosis     | ICD-10-CM |
| S35.211D | Minor laceration of celiac artery, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S35.211S | Minor laceration of celiac artery, sequela                      | Diagnosis     | ICD-10-CM |
| S35.212  | Major laceration of celiac artery                               | Diagnosis     | ICD-10-CM |
| S35.212A | Major laceration of celiac artery, initial encounter            | Diagnosis     | ICD-10-CM |
| S35.212D | Major laceration of celiac artery, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S35.212S | Major laceration of celiac artery, sequela                      | Diagnosis     | ICD-10-CM |
| S35.218  | Other injury of celiac artery                                   | Diagnosis     | ICD-10-CM |
| S35.218A | Other injury of celiac artery, initial encounter                | Diagnosis     | ICD-10-CM |
| S35.218D | Other injury of celiac artery, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S35.218S | Other injury of celiac artery, sequela                          | Diagnosis     | ICD-10-CM |
| S35.219  | Unspecified injury of celiac artery                             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S35.219A | Unspecified injury of celiac artery, initial encounter                             | Diagnosis     | ICD-10-CM |
| S35.219D | Unspecified injury of celiac artery, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S35.219S | Unspecified injury of celiac artery, sequela                                       | Diagnosis     | ICD-10-CM |
| S35.22   | Injury of superior mesenteric artery   | Diagnosis     | ICD-10-CM |
| S35.221  | Minor laceration of superior mesenteric artery                                     | Diagnosis     | ICD-10-CM |
| S35.221A | Minor laceration of superior mesenteric artery, initial encounter                  | Diagnosis     | ICD-10-CM |
| S35.221D | Minor laceration of superior mesenteric artery, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S35.221S | Minor laceration of superior mesenteric artery, sequela                            | Diagnosis     | ICD-10-CM |
| S35.222  | Major laceration of superior mesenteric artery                                     | Diagnosis     | ICD-10-CM |
| S35.222A | Major laceration of superior mesenteric artery, initial encounter                  | Diagnosis     | ICD-10-CM |
| S35.222D | Major laceration of superior mesenteric artery, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S35.222S | Major laceration of superior mesenteric artery, sequela                            | Diagnosis     | ICD-10-CM |
| S35.228  | Other injury of superior mesenteric artery   | Diagnosis     | ICD-10-CM |
| S35.228A | Other injury of superior mesenteric artery, initial encounter                      | Diagnosis     | ICD-10-CM |
| S35.228D | Other injury of superior mesenteric artery, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S35.228S | Other injury of superior mesenteric artery, sequela                                | Diagnosis     | ICD-10-CM |
| S35.229  | Unspecified injury of superior mesenteric artery                                   | Diagnosis     | ICD-10-CM |
| S35.229A | Unspecified injury of superior mesenteric artery, initial encounter                | Diagnosis     | ICD-10-CM |
| S35.229D | Unspecified injury of superior mesenteric artery, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S35.229S | Unspecified injury of superior mesenteric artery, sequela                          | Diagnosis     | ICD-10-CM |
| S35.23   | Injury of inferior mesenteric artery   | Diagnosis     | ICD-10-CM |
| S35.231  | Minor laceration of inferior mesenteric artery                                     | Diagnosis     | ICD-10-CM |
| S35.231A | Minor laceration of inferior mesenteric artery, initial encounter                  | Diagnosis     | ICD-10-CM |
| S35.231D | Minor laceration of inferior mesenteric artery, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S35.231S | Minor laceration of inferior mesenteric artery, sequela                            | Diagnosis     | ICD-10-CM |
| S35.232  | Major laceration of inferior mesenteric artery                                     | Diagnosis     | ICD-10-CM |
| S35.232A | Major laceration of inferior mesenteric artery, initial encounter                  | Diagnosis     | ICD-10-CM |
| S35.232D | Major laceration of inferior mesenteric artery, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S35.232S | Major laceration of inferior mesenteric artery, sequela                            | Diagnosis     | ICD-10-CM |
| S35.238  | Other injury of inferior mesenteric artery   | Diagnosis     | ICD-10-CM |
| S35.238A | Other injury of inferior mesenteric artery, initial encounter                      | Diagnosis     | ICD-10-CM |
| S35.238D | Other injury of inferior mesenteric artery, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S35.238S | Other injury of inferior mesenteric artery, sequela                                | Diagnosis     | ICD-10-CM |
| S35.239  | Unspecified injury of inferior mesenteric artery                                   | Diagnosis     | ICD-10-CM |
| S35.239A | Unspecified injury of inferior mesenteric artery, initial encounter                | Diagnosis     | ICD-10-CM |
| S35.239D | Unspecified injury of inferior mesenteric artery, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S35.239S | Unspecified injury of inferior mesenteric artery, sequela                          | Diagnosis     | ICD-10-CM |
| S35.29   | Injury of branches of celiac and mesenteric artery                                 | Diagnosis     | ICD-10-CM |
| S35.291  | Minor laceration of branches of celiac and mesenteric artery                       | Diagnosis     | ICD-10-CM |
| S35.291A | Minor laceration of branches of celiac and mesenteric artery, initial encounter    | Diagnosis     | ICD-10-CM |
| S35.291D | Minor laceration of branches of celiac and mesenteric artery, subsequent encounter | Diagnosis     | ICD-10-CM |
| S35.291S | Minor laceration of branches of celiac and mesenteric artery, sequela              | Diagnosis     | ICD-10-CM |
| S35.292  | Major laceration of branches of celiac and mesenteric artery                       | Diagnosis     | ICD-10-CM |
| S35.292A | Major laceration of branches of celiac and mesenteric artery, initial encounter    | Diagnosis     | ICD-10-CM |
| S35.292D | Major laceration of branches of celiac and mesenteric artery, subsequent encounter | Diagnosis     | ICD-10-CM |
| S35.292S | Major laceration of branches of celiac and mesenteric artery, sequela              | Diagnosis     | ICD-10-CM |
| S35.298  | Other injury of branches of celiac and mesenteric artery                           | Diagnosis     | ICD-10-CM |
| S35.298A | Other injury of branches of celiac and mesenteric artery, initial encounter        | Diagnosis     | ICD-10-CM |
| S35.298D | Other injury of branches of celiac and mesenteric artery, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S35.298S | Other injury of branches of celiac and mesenteric artery, sequela                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S35.299  | Unspecified injury of branches of celiac and mesenteric artery                       | Diagnosis     | ICD-10-CM |
| S35.299A | Unspecified injury of branches of celiac and mesenteric artery, initial encounter    | Diagnosis     | ICD-10-CM |
| S35.299D | Unspecified injury of branches of celiac and mesenteric artery, subsequent encounter | Diagnosis     | ICD-10-CM |
| S35.299S | Unspecified injury of branches of celiac and mesenteric artery, sequela              | Diagnosis     | ICD-10-CM |
| S35.3    | Injury of portal or splenic vein and branches  | Diagnosis     | ICD-10-CM |
| S35.31   | Injury of portal vein  | Diagnosis     | ICD-10-CM |
| S35.311  | Laceration of portal vein  | Diagnosis     | ICD-10-CM |
| S35.311A | Laceration of portal vein, initial encounter   | Diagnosis     | ICD-10-CM |
| S35.311D | Laceration of portal vein, subsequent encounter                                      | Diagnosis     | ICD-10-CM |
| S35.311S | Laceration of portal vein, sequela   | Diagnosis     | ICD-10-CM |
| S35.318  | Other specified injury of portal vein  | Diagnosis     | ICD-10-CM |
| S35.318A | Other specified injury of portal vein, initial encounter                             | Diagnosis     | ICD-10-CM |
| S35.318D | Other specified injury of portal vein, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S35.318S | Other specified injury of portal vein, sequela                                       | Diagnosis     | ICD-10-CM |
| S35.319  | Unspecified injury of portal vein  | Diagnosis     | ICD-10-CM |
| S35.319A | Unspecified injury of portal vein, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S35.319D | Unspecified injury of portal vein, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S35.319S | Unspecified injury of portal vein, sequela   | Diagnosis     | ICD-10-CM |
| S35.32   | Injury of splenic vein   | Diagnosis     | ICD-10-CM |
| S35.321  | Laceration of splenic vein   | Diagnosis     | ICD-10-CM |
| S35.321A | Laceration of splenic vein, initial encounter  | Diagnosis     | ICD-10-CM |
| S35.321D | Laceration of splenic vein, subsequent encounter                                     | Diagnosis     | ICD-10-CM |
| S35.321S | Laceration of splenic vein, sequela  | Diagnosis     | ICD-10-CM |
| S35.328  | Other specified injury of splenic vein   | Diagnosis     | ICD-10-CM |
| S35.328A | Other specified injury of splenic vein, initial encounter                            | Diagnosis     | ICD-10-CM |
| S35.328D | Other specified injury of splenic vein, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S35.328S | Other specified injury of splenic vein, sequela                                      | Diagnosis     | ICD-10-CM |
| S35.329  | Unspecified injury of splenic vein   | Diagnosis     | ICD-10-CM |
| S35.329A | Unspecified injury of splenic vein, initial encounter                                | Diagnosis     | ICD-10-CM |
| S35.329D | Unspecified injury of splenic vein, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S35.329S | Unspecified injury of splenic vein, sequela  | Diagnosis     | ICD-10-CM |
| S35.33   | Injury of superior mesenteric vein   | Diagnosis     | ICD-10-CM |
| S35.331  | Laceration of superior mesenteric vein   | Diagnosis     | ICD-10-CM |
| S35.331A | Laceration of superior mesenteric vein, initial encounter                            | Diagnosis     | ICD-10-CM |
| S35.331D | Laceration of superior mesenteric vein, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S35.331S | Laceration of superior mesenteric vein, sequela                                      | Diagnosis     | ICD-10-CM |
| S35.338  | Other specified injury of superior mesenteric vein                                   | Diagnosis     | ICD-10-CM |
| S35.338A | Other specified injury of superior mesenteric vein, initial encounter                | Diagnosis     | ICD-10-CM |
| S35.338D | Other specified injury of superior mesenteric vein, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S35.338S | Other specified injury of superior mesenteric vein, sequela                          | Diagnosis     | ICD-10-CM |
| S35.339  | Unspecified injury of superior mesenteric vein                                       | Diagnosis     | ICD-10-CM |
| S35.339A | Unspecified injury of superior mesenteric vein, initial encounter                    | Diagnosis     | ICD-10-CM |
| S35.339D | Unspecified injury of superior mesenteric vein, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S35.339S | Unspecified injury of superior mesenteric vein, sequela                              | Diagnosis     | ICD-10-CM |
| S35.34   | Injury of inferior mesenteric vein   | Diagnosis     | ICD-10-CM |
| S35.341  | Laceration of inferior mesenteric vein   | Diagnosis     | ICD-10-CM |
| S35.341A | Laceration of inferior mesenteric vein, initial encounter                            | Diagnosis     | ICD-10-CM |
| S35.341D | Laceration of inferior mesenteric vein, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S35.341S | Laceration of inferior mesenteric vein, sequela                                      | Diagnosis     | ICD-10-CM |
| S35.348  | Other specified injury of inferior mesenteric vein                                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S35.348A | Other specified injury of inferior mesenteric vein, initial encounter    | Diagnosis     | ICD-10-CM |
| S35.348D | Other specified injury of inferior mesenteric vein, subsequent encounter | Diagnosis     | ICD-10-CM |
| S35.348S | Other specified injury of inferior mesenteric vein, sequela              | Diagnosis     | ICD-10-CM |
| S35.349  | Unspecified injury of inferior mesenteric vein                           | Diagnosis     | ICD-10-CM |
| S35.349A | Unspecified injury of inferior mesenteric vein, initial encounter        | Diagnosis     | ICD-10-CM |
| S35.349D | Unspecified injury of inferior mesenteric vein, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S35.349S | Unspecified injury of inferior mesenteric vein, sequela                  | Diagnosis     | ICD-10-CM |
| S35.4    | Injury of renal blood vessels  | Diagnosis     | ICD-10-CM |
| S35.40   | Unspecified injury of renal blood vessel                                 | Diagnosis     | ICD-10-CM |
| S35.401  | Unspecified injury of right renal artery                                 | Diagnosis     | ICD-10-CM |
| S35.401A | Unspecified injury of right renal artery, initial encounter              | Diagnosis     | ICD-10-CM |
| S35.401D | Unspecified injury of right renal artery, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S35.401S | Unspecified injury of right renal artery, sequela                        | Diagnosis     | ICD-10-CM |
| S35.402  | Unspecified injury of left renal artery                                  | Diagnosis     | ICD-10-CM |
| S35.402A | Unspecified injury of left renal artery, initial encounter               | Diagnosis     | ICD-10-CM |
| S35.402D | Unspecified injury of left renal artery, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S35.402S | Unspecified injury of left renal artery, sequela                         | Diagnosis     | ICD-10-CM |
| S35.403  | Unspecified injury of unspecified renal artery                           | Diagnosis     | ICD-10-CM |
| S35.403A | Unspecified injury of unspecified renal artery, initial encounter        | Diagnosis     | ICD-10-CM |
| S35.403D | Unspecified injury of unspecified renal artery, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S35.403S | Unspecified injury of unspecified renal artery, sequela                  | Diagnosis     | ICD-10-CM |
| S35.404  | Unspecified injury of right renal vein                                   | Diagnosis     | ICD-10-CM |
| S35.404A | Unspecified injury of right renal vein, initial encounter                | Diagnosis     | ICD-10-CM |
| S35.404D | Unspecified injury of right renal vein, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S35.404S | Unspecified injury of right renal vein, sequela                          | Diagnosis     | ICD-10-CM |
| S35.405  | Unspecified injury of left renal vein                                    | Diagnosis     | ICD-10-CM |
| S35.405A | Unspecified injury of left renal vein, initial encounter                 | Diagnosis     | ICD-10-CM |
| S35.405D | Unspecified injury of left renal vein, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S35.405S | Unspecified injury of left renal vein, sequela                           | Diagnosis     | ICD-10-CM |
| S35.406  | Unspecified injury of unspecified renal vein                             | Diagnosis     | ICD-10-CM |
| S35.406A | Unspecified injury of unspecified renal vein, initial encounter          | Diagnosis     | ICD-10-CM |
| S35.406D | Unspecified injury of unspecified renal vein, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S35.406S | Unspecified injury of unspecified renal vein, sequela                    | Diagnosis     | ICD-10-CM |
| S35.41   | Laceration of renal blood vessel   | Diagnosis     | ICD-10-CM |
| S35.411  | Laceration of right renal artery   | Diagnosis     | ICD-10-CM |
| S35.411A | Laceration of right renal artery, initial encounter                      | Diagnosis     | ICD-10-CM |
| S35.411D | Laceration of right renal artery, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S35.411S | Laceration of right renal artery, sequela                                | Diagnosis     | ICD-10-CM |
| S35.412  | Laceration of left renal artery  | Diagnosis     | ICD-10-CM |
| S35.412A | Laceration of left renal artery, initial encounter                       | Diagnosis     | ICD-10-CM |
| S35.412D | Laceration of left renal artery, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S35.412S | Laceration of left renal artery, sequela                                 | Diagnosis     | ICD-10-CM |
| S35.413  | Laceration of unspecified renal artery                                   | Diagnosis     | ICD-10-CM |
| S35.413A | Laceration of unspecified renal artery, initial encounter                | Diagnosis     | ICD-10-CM |
| S35.413D | Laceration of unspecified renal artery, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S35.413S | Laceration of unspecified renal artery, sequela                          | Diagnosis     | ICD-10-CM |
| S35.414  | Laceration of right renal vein   | Diagnosis     | ICD-10-CM |
| S35.414A | Laceration of right renal vein, initial encounter                        | Diagnosis     | ICD-10-CM |
| S35.414D | Laceration of right renal vein, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S35.414S | Laceration of right renal vein, sequela                                  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S35.415  | Laceration of left renal vein  | Diagnosis     | ICD-10-CM |
| S35.415A | Laceration of left renal vein, initial encounter                         | Diagnosis     | ICD-10-CM |
| S35.415D | Laceration of left renal vein, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S35.415S | Laceration of left renal vein, sequela                                   | Diagnosis     | ICD-10-CM |
| S35.416  | Laceration of unspecified renal vein                                     | Diagnosis     | ICD-10-CM |
| S35.416A | Laceration of unspecified renal vein, initial encounter                  | Diagnosis     | ICD-10-CM |
| S35.416D | Laceration of unspecified renal vein, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S35.416S | Laceration of unspecified renal vein, sequela                            | Diagnosis     | ICD-10-CM |
| S35.49   | Other specified injury of renal blood vessel                             | Diagnosis     | ICD-10-CM |
| S35.491  | Other specified injury of right renal artery                             | Diagnosis     | ICD-10-CM |
| S35.491A | Other specified injury of right renal artery, initial encounter          | Diagnosis     | ICD-10-CM |
| S35.491D | Other specified injury of right renal artery, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S35.491S | Other specified injury of right renal artery, sequela                    | Diagnosis     | ICD-10-CM |
| S35.492  | Other specified injury of left renal artery                              | Diagnosis     | ICD-10-CM |
| S35.492A | Other specified injury of left renal artery, initial encounter           | Diagnosis     | ICD-10-CM |
| S35.492D | Other specified injury of left renal artery, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S35.492S | Other specified injury of left renal artery, sequela                     | Diagnosis     | ICD-10-CM |
| S35.493  | Other specified injury of unspecified renal artery                       | Diagnosis     | ICD-10-CM |
| S35.493A | Other specified injury of unspecified renal artery, initial encounter    | Diagnosis     | ICD-10-CM |
| S35.493D | Other specified injury of unspecified renal artery, subsequent encounter | Diagnosis     | ICD-10-CM |
| S35.493S | Other specified injury of unspecified renal artery, sequela              | Diagnosis     | ICD-10-CM |
| S35.494  | Other specified injury of right renal vein                               | Diagnosis     | ICD-10-CM |
| S35.494A | Other specified injury of right renal vein, initial encounter            | Diagnosis     | ICD-10-CM |
| S35.494D | Other specified injury of right renal vein, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S35.494S | Other specified injury of right renal vein, sequela                      | Diagnosis     | ICD-10-CM |
| S35.495  | Other specified injury of left renal vein                                | Diagnosis     | ICD-10-CM |
| S35.495A | Other specified injury of left renal vein, initial encounter             | Diagnosis     | ICD-10-CM |
| S35.495D | Other specified injury of left renal vein, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S35.495S | Other specified injury of left renal vein, sequela                       | Diagnosis     | ICD-10-CM |
| S35.496  | Other specified injury of unspecified renal vein                         | Diagnosis     | ICD-10-CM |
| S35.496A | Other specified injury of unspecified renal vein, initial encounter      | Diagnosis     | ICD-10-CM |
| S35.496D | Other specified injury of unspecified renal vein, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S35.496S | Other specified injury of unspecified renal vein, sequela                | Diagnosis     | ICD-10-CM |
| S35.5    | Injury of iliac blood vessels  | Diagnosis     | ICD-10-CM |
| S35.50   | Injury of unspecified iliac blood vessel(s)                              | Diagnosis     | ICD-10-CM |
| S35.50XA | Injury of unspecified iliac blood vessel(s), initial encounter           | Diagnosis     | ICD-10-CM |
| S35.50XD | Injury of unspecified iliac blood vessel(s), subsequent encounter        | Diagnosis     | ICD-10-CM |
| S35.50XS | Injury of unspecified iliac blood vessel(s), sequela                     | Diagnosis     | ICD-10-CM |
| S35.51   | Injury of iliac artery or vein   | Diagnosis     | ICD-10-CM |
| S35.511  | Injury of right iliac artery   | Diagnosis     | ICD-10-CM |
| S35.511A | Injury of right iliac artery, initial encounter                          | Diagnosis     | ICD-10-CM |
| S35.511D | Injury of right iliac artery, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S35.511S | Injury of right iliac artery, sequela                                    | Diagnosis     | ICD-10-CM |
| S35.512  | Injury of left iliac artery  | Diagnosis     | ICD-10-CM |
| S35.512A | Injury of left iliac artery, initial encounter                           | Diagnosis     | ICD-10-CM |
| S35.512D | Injury of left iliac artery, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S35.512S | Injury of left iliac artery, sequela                                     | Diagnosis     | ICD-10-CM |
| S35.513  | Injury of unspecified iliac artery                                       | Diagnosis     | ICD-10-CM |
| S35.513A | Injury of unspecified iliac artery, initial encounter                    | Diagnosis     | ICD-10-CM |
| S35.513D | Injury of unspecified iliac artery, subsequent encounter                 | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S35.513S | Injury of unspecified iliac artery, sequela   | Diagnosis     | ICD-10-CM |
| S35.514  | Injury of right iliac vein  | Diagnosis     | ICD-10-CM |
| S35.514A | Injury of right iliac vein, initial encounter   | Diagnosis     | ICD-10-CM |
| S35.514D | Injury of right iliac vein, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S35.514S | Injury of right iliac vein, sequela   | Diagnosis     | ICD-10-CM |
| S35.515  | Injury of left iliac vein   | Diagnosis     | ICD-10-CM |
| S35.515A | Injury of left iliac vein, initial encounter  | Diagnosis     | ICD-10-CM |
| S35.515D | Injury of left iliac vein, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S35.515S | Injury of left iliac vein, sequela  | Diagnosis     | ICD-10-CM |
| S35.516  | Injury of unspecified iliac vein  | Diagnosis     | ICD-10-CM |
| S35.516A | Injury of unspecified iliac vein, initial encounter   | Diagnosis     | ICD-10-CM |
| S35.516D | Injury of unspecified iliac vein, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S35.516S | Injury of unspecified iliac vein, sequela   | Diagnosis     | ICD-10-CM |
| S35.53   | Injury of uterine artery or vein  | Diagnosis     | ICD-10-CM |
| S35.531  | Injury of right uterine artery  | Diagnosis     | ICD-10-CM |
| S35.531A | Injury of right uterine artery, initial encounter   | Diagnosis     | ICD-10-CM |
| S35.531D | Injury of right uterine artery, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S35.531S | Injury of right uterine artery, sequela   | Diagnosis     | ICD-10-CM |
| S35.532  | Injury of left uterine artery   | Diagnosis     | ICD-10-CM |
| S35.532A | Injury of left uterine artery, initial encounter  | Diagnosis     | ICD-10-CM |
| S35.532D | Injury of left uterine artery, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S35.532S | Injury of left uterine artery, sequela  | Diagnosis     | ICD-10-CM |
| S35.533  | Injury of unspecified uterine artery  | Diagnosis     | ICD-10-CM |
| S35.533A | Injury of unspecified uterine artery, initial encounter   | Diagnosis     | ICD-10-CM |
| S35.533D | Injury of unspecified uterine artery, subsequent encounter                                      | Diagnosis     | ICD-10-CM |
| S35.533S | Injury of unspecified uterine artery, sequela   | Diagnosis     | ICD-10-CM |
| S35.534  | Injury of right uterine vein  | Diagnosis     | ICD-10-CM |
| S35.534A | Injury of right uterine vein, initial encounter   | Diagnosis     | ICD-10-CM |
| S35.534D | Injury of right uterine vein, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S35.534S | Injury of right uterine vein, sequela   | Diagnosis     | ICD-10-CM |
| S35.535  | Injury of left uterine vein   | Diagnosis     | ICD-10-CM |
| S35.535A | Injury of left uterine vein, initial encounter  | Diagnosis     | ICD-10-CM |
| S35.535D | Injury of left uterine vein, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S35.535S | Injury of left uterine vein, sequela  | Diagnosis     | ICD-10-CM |
| S35.536  | Injury of unspecified uterine vein  | Diagnosis     | ICD-10-CM |
| S35.536A | Injury of unspecified uterine vein, initial encounter   | Diagnosis     | ICD-10-CM |
| S35.536D | Injury of unspecified uterine vein, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S35.536S | Injury of unspecified uterine vein, sequela   | Diagnosis     | ICD-10-CM |
| S35.59   | Injury of other iliac blood vessels   | Diagnosis     | ICD-10-CM |
| S35.59XA | Injury of other iliac blood vessels, initial encounter  | Diagnosis     | ICD-10-CM |
| S35.59XD | Injury of other iliac blood vessels, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S35.59XS | Injury of other iliac blood vessels, sequela  | Diagnosis     | ICD-10-CM |
| S35.8    | Injury of other blood vessels at abdomen, lower back and pelvis level                           | Diagnosis     | ICD-10-CM |
| S35.8X   | Injury of other blood vessels at abdomen, lower back and pelvis level                           | Diagnosis     | ICD-10-CM |
| S35.8X1  | Laceration of other blood vessels at abdomen, lower back and pelvis level                       | Diagnosis     | ICD-10-CM |
| S35.8X1A | Laceration of other blood vessels at abdomen, lower back and pelvis level, initial encounter    | Diagnosis     | ICD-10-CM |
| S35.8X1D | Laceration of other blood vessels at abdomen, lower back and pelvis level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S35.8X1S | Laceration of other blood vessels at abdomen, lower back and pelvis level, sequela              | Diagnosis     | ICD-10-CM |
| S35.8X8  | Other specified injury of other blood vessels at abdomen, lower back and pelvis level           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S35.8X8A | Other specified injury of other blood vessels at abdomen, lower back and pelvis level, initial encounter         | Diagnosis     | ICD-10-CM |
| S35.8X8D | Other specified injury of other blood vessels at abdomen, lower back and pelvis level, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S35.8X8S | Other specified injury of other blood vessels at abdomen, lower back and pelvis level, sequela                   | Diagnosis     | ICD-10-CM |
| S35.8X9  | Unspecified injury of other blood vessels at abdomen, lower back and pelvis level                                | Diagnosis     | ICD-10-CM |
| S35.8X9A | Unspecified injury of other blood vessels at abdomen, lower back and pelvis level, initial encounter             | Diagnosis     | ICD-10-CM |
| S35.8X9D | Unspecified injury of other blood vessels at abdomen, lower back and pelvis level, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S35.8X9S | Unspecified injury of other blood vessels at abdomen, lower back and pelvis level, sequela                       | Diagnosis     | ICD-10-CM |
| S35.9    | Injury of unspecified blood vessel at abdomen, lower back and pelvis level                                       | Diagnosis     | ICD-10-CM |
| S35.90   | Unspecified injury of unspecified blood vessel at abdomen, lower back and pelvis level                           | Diagnosis     | ICD-10-CM |
| S35.90XA | Unspecified injury of unspecified blood vessel at abdomen, lower back and pelvis level, initial encounter        | Diagnosis     | ICD-10-CM |
| S35.90XD | Unspecified injury of unspecified blood vessel at abdomen, lower back and pelvis level, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S35.90XS | Unspecified injury of unspecified blood vessel at abdomen, lower back and pelvis level, sequela                  | Diagnosis     | ICD-10-CM |
| S35.91   | Laceration of unspecified blood vessel at abdomen, lower back and pelvis level                                   | Diagnosis     | ICD-10-CM |
| S35.91XA | Laceration of unspecified blood vessel at abdomen, lower back and pelvis level, initial encounter                | Diagnosis     | ICD-10-CM |
| S35.91XD | Laceration of unspecified blood vessel at abdomen, lower back and pelvis level, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S35.91XS | Laceration of unspecified blood vessel at abdomen, lower back and pelvis level, sequela                          | Diagnosis     | ICD-10-CM |
| S35.99   | Other specified injury of unspecified blood vessel at abdomen, lower back and pelvis level                       | Diagnosis     | ICD-10-CM |
| S35.99XA | Other specified injury of unspecified blood vessel at abdomen, lower back and pelvis level, initial encounter    | Diagnosis     | ICD-10-CM |
| S35.99XD | Other specified injury of unspecified blood vessel at abdomen, lower back and pelvis level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S35.99XS | Other specified injury of unspecified blood vessel at abdomen, lower back and pelvis level, sequela              | Diagnosis     | ICD-10-CM |
| S36      | Injury of intra-abdominal organs   | Diagnosis     | ICD-10-CM |
| S36.0    | Injury of spleen   | Diagnosis     | ICD-10-CM |
| S36.00   | Unspecified injury of spleen   | Diagnosis     | ICD-10-CM |
| S36.00XA | Unspecified injury of spleen, initial encounter  | Diagnosis     | ICD-10-CM |
| S36.00XD | Unspecified injury of spleen, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S36.00XS | Unspecified injury of spleen, sequela  | Diagnosis     | ICD-10-CM |
| S36.02   | Contusion of spleen  | Diagnosis     | ICD-10-CM |
| S36.020  | Minor contusion of spleen  | Diagnosis     | ICD-10-CM |
| S36.020A | Minor contusion of spleen, initial encounter   | Diagnosis     | ICD-10-CM |
| S36.020D | Minor contusion of spleen, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S36.020S | Minor contusion of spleen, sequela   | Diagnosis     | ICD-10-CM |
| S36.021  | Major contusion of spleen  | Diagnosis     | ICD-10-CM |
| S36.021A | Major contusion of spleen, initial encounter   | Diagnosis     | ICD-10-CM |
| S36.021D | Major contusion of spleen, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S36.021S | Major contusion of spleen, sequela   | Diagnosis     | ICD-10-CM |
| S36.029  | Unspecified contusion of spleen  | Diagnosis     | ICD-10-CM |
| S36.029A | Unspecified contusion of spleen, initial encounter   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S36.029D | Unspecified contusion of spleen, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S36.029S | Unspecified contusion of spleen, sequela                          | Diagnosis     | ICD-10-CM |
| S36.03   | Laceration of spleen  | Diagnosis     | ICD-10-CM |
| S36.030  | Superficial (capsular) laceration of spleen                       | Diagnosis     | ICD-10-CM |
| S36.030A | Superficial (capsular) laceration of spleen, initial encounter    | Diagnosis     | ICD-10-CM |
| S36.030D | Superficial (capsular) laceration of spleen, subsequent encounter | Diagnosis     | ICD-10-CM |
| S36.030S | Superficial (capsular) laceration of spleen, sequela              | Diagnosis     | ICD-10-CM |
| S36.031  | Moderate laceration of spleen                                     | Diagnosis     | ICD-10-CM |
| S36.031A | Moderate laceration of spleen, initial encounter                  | Diagnosis     | ICD-10-CM |
| S36.031D | Moderate laceration of spleen, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S36.031S | Moderate laceration of spleen, sequela                            | Diagnosis     | ICD-10-CM |
| S36.032  | Major laceration of spleen  | Diagnosis     | ICD-10-CM |
| S36.032A | Major laceration of spleen, initial encounter                     | Diagnosis     | ICD-10-CM |
| S36.032D | Major laceration of spleen, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S36.032S | Major laceration of spleen, sequela                               | Diagnosis     | ICD-10-CM |
| S36.039  | Unspecified laceration of spleen                                  | Diagnosis     | ICD-10-CM |
| S36.039A | Unspecified laceration of spleen, initial encounter               | Diagnosis     | ICD-10-CM |
| S36.039D | Unspecified laceration of spleen, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S36.039S | Unspecified laceration of spleen, sequela                         | Diagnosis     | ICD-10-CM |
| S36.09   | Other injury of spleen  | Diagnosis     | ICD-10-CM |
| S36.09XA | Other injury of spleen, initial encounter                         | Diagnosis     | ICD-10-CM |
| S36.09XD | Other injury of spleen, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S36.09XS | Other injury of spleen, sequela                                   | Diagnosis     | ICD-10-CM |
| S36.1    | Injury of liver and gallbladder and bile duct                     | Diagnosis     | ICD-10-CM |
| S36.11   | Injury of liver   | Diagnosis     | ICD-10-CM |
| S36.112  | Contusion of liver  | Diagnosis     | ICD-10-CM |
| S36.112A | Contusion of liver, initial encounter                             | Diagnosis     | ICD-10-CM |
| S36.112D | Contusion of liver, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S36.112S | Contusion of liver, sequela                                       | Diagnosis     | ICD-10-CM |
| S36.113  | Laceration of liver, unspecified degree                           | Diagnosis     | ICD-10-CM |
| S36.113A | Laceration of liver, unspecified degree, initial encounter        | Diagnosis     | ICD-10-CM |
| S36.113D | Laceration of liver, unspecified degree, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S36.113S | Laceration of liver, unspecified degree, sequela                  | Diagnosis     | ICD-10-CM |
| S36.114  | Minor laceration of liver   | Diagnosis     | ICD-10-CM |
| S36.114A | Minor laceration of liver, initial encounter                      | Diagnosis     | ICD-10-CM |
| S36.114D | Minor laceration of liver, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S36.114S | Minor laceration of liver, sequela                                | Diagnosis     | ICD-10-CM |
| S36.115  | Moderate laceration of liver                                      | Diagnosis     | ICD-10-CM |
| S36.115A | Moderate laceration of liver, initial encounter                   | Diagnosis     | ICD-10-CM |
| S36.115D | Moderate laceration of liver, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S36.115S | Moderate laceration of liver, sequela                             | Diagnosis     | ICD-10-CM |
| S36.116  | Major laceration of liver   | Diagnosis     | ICD-10-CM |
| S36.116A | Major laceration of liver, initial encounter                      | Diagnosis     | ICD-10-CM |
| S36.116D | Major laceration of liver, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S36.116S | Major laceration of liver, sequela                                | Diagnosis     | ICD-10-CM |
| S36.118  | Other injury of liver   | Diagnosis     | ICD-10-CM |
| S36.118A | Other injury of liver, initial encounter                          | Diagnosis     | ICD-10-CM |
| S36.118D | Other injury of liver, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S36.118S | Other injury of liver, sequela                                    | Diagnosis     | ICD-10-CM |
| S36.119  | Unspecified injury of liver                                       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S36.119A | Unspecified injury of liver, initial encounter                           | Diagnosis     | ICD-10-CM |
| S36.119D | Unspecified injury of liver, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S36.119S | Unspecified injury of liver, sequela                                     | Diagnosis     | ICD-10-CM |
| S36.12   | Injury of gallbladder  | Diagnosis     | ICD-10-CM |
| S36.122  | Contusion of gallbladder   | Diagnosis     | ICD-10-CM |
| S36.122A | Contusion of gallbladder, initial encounter                              | Diagnosis     | ICD-10-CM |
| S36.122D | Contusion of gallbladder, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S36.122S | Contusion of gallbladder, sequela  | Diagnosis     | ICD-10-CM |
| S36.123  | Laceration of gallbladder  | Diagnosis     | ICD-10-CM |
| S36.123A | Laceration of gallbladder, initial encounter                             | Diagnosis     | ICD-10-CM |
| S36.123D | Laceration of gallbladder, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S36.123S | Laceration of gallbladder, sequela                                       | Diagnosis     | ICD-10-CM |
| S36.128  | Other injury of gallbladder  | Diagnosis     | ICD-10-CM |
| S36.128A | Other injury of gallbladder, initial encounter                           | Diagnosis     | ICD-10-CM |
| S36.128D | Other injury of gallbladder, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S36.128S | Other injury of gallbladder, sequela                                     | Diagnosis     | ICD-10-CM |
| S36.129  | Unspecified injury of gallbladder  | Diagnosis     | ICD-10-CM |
| S36.129A | Unspecified injury of gallbladder, initial encounter                     | Diagnosis     | ICD-10-CM |
| S36.129D | Unspecified injury of gallbladder, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S36.129S | Unspecified injury of gallbladder, sequela                               | Diagnosis     | ICD-10-CM |
| S36.13   | Injury of bile duct  | Diagnosis     | ICD-10-CM |
| S36.13XA | Injury of bile duct, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S36.13XD | Injury of bile duct, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S36.13XS | Injury of bile duct, sequela   | Diagnosis     | ICD-10-CM |
| S36.2    | Injury of pancreas   | Diagnosis     | ICD-10-CM |
| S36.20   | Unspecified injury of pancreas   | Diagnosis     | ICD-10-CM |
| S36.200  | Unspecified injury of head of pancreas                                   | Diagnosis     | ICD-10-CM |
| S36.200A | Unspecified injury of head of pancreas, initial encounter                | Diagnosis     | ICD-10-CM |
| S36.200D | Unspecified injury of head of pancreas, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S36.200S | Unspecified injury of head of pancreas, sequela                          | Diagnosis     | ICD-10-CM |
| S36.201  | Unspecified injury of body of pancreas                                   | Diagnosis     | ICD-10-CM |
| S36.201A | Unspecified injury of body of pancreas, initial encounter                | Diagnosis     | ICD-10-CM |
| S36.201D | Unspecified injury of body of pancreas, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S36.201S | Unspecified injury of body of pancreas, sequela                          | Diagnosis     | ICD-10-CM |
| S36.202  | Unspecified injury of tail of pancreas                                   | Diagnosis     | ICD-10-CM |
| S36.202A | Unspecified injury of tail of pancreas, initial encounter                | Diagnosis     | ICD-10-CM |
| S36.202D | Unspecified injury of tail of pancreas, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S36.202S | Unspecified injury of tail of pancreas, sequela                          | Diagnosis     | ICD-10-CM |
| S36.209  | Unspecified injury of unspecified part of pancreas                       | Diagnosis     | ICD-10-CM |
| S36.209A | Unspecified injury of unspecified part of pancreas, initial encounter    | Diagnosis     | ICD-10-CM |
| S36.209D | Unspecified injury of unspecified part of pancreas, subsequent encounter | Diagnosis     | ICD-10-CM |
| S36.209S | Unspecified injury of unspecified part of pancreas, sequela              | Diagnosis     | ICD-10-CM |
| S36.22   | Contusion of pancreas  | Diagnosis     | ICD-10-CM |
| S36.220  | Contusion of head of pancreas  | Diagnosis     | ICD-10-CM |
| S36.220A | Contusion of head of pancreas, initial encounter                         | Diagnosis     | ICD-10-CM |
| S36.220D | Contusion of head of pancreas, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S36.220S | Contusion of head of pancreas, sequela                                   | Diagnosis     | ICD-10-CM |
| S36.221  | Contusion of body of pancreas  | Diagnosis     | ICD-10-CM |
| S36.221A | Contusion of body of pancreas, initial encounter                         | Diagnosis     | ICD-10-CM |
| S36.221D | Contusion of body of pancreas, subsequent encounter                      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S36.221S | Contusion of body of pancreas, sequela   | Diagnosis     | ICD-10-CM |
| S36.222  | Contusion of tail of pancreas  | Diagnosis     | ICD-10-CM |
| S36.222A | Contusion of tail of pancreas, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S36.222D | Contusion of tail of pancreas, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S36.222S | Contusion of tail of pancreas, sequela   | Diagnosis     | ICD-10-CM |
| S36.229  | Contusion of unspecified part of pancreas  | Diagnosis     | ICD-10-CM |
| S36.229A | Contusion of unspecified part of pancreas, initial encounter                         | Diagnosis     | ICD-10-CM |
| S36.229D | Contusion of unspecified part of pancreas, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S36.229S | Contusion of unspecified part of pancreas, sequela                                   | Diagnosis     | ICD-10-CM |
| S36.23   | Laceration of pancreas, unspecified degree   | Diagnosis     | ICD-10-CM |
| S36.230  | Laceration of head of pancreas, unspecified degree                                   | Diagnosis     | ICD-10-CM |
| S36.230A | Laceration of head of pancreas, unspecified degree, initial encounter                | Diagnosis     | ICD-10-CM |
| S36.230D | Laceration of head of pancreas, unspecified degree, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S36.230S | Laceration of head of pancreas, unspecified degree, sequela                          | Diagnosis     | ICD-10-CM |
| S36.231  | Laceration of body of pancreas, unspecified degree                                   | Diagnosis     | ICD-10-CM |
| S36.231A | Laceration of body of pancreas, unspecified degree, initial encounter                | Diagnosis     | ICD-10-CM |
| S36.231D | Laceration of body of pancreas, unspecified degree, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S36.231S | Laceration of body of pancreas, unspecified degree, sequela                          | Diagnosis     | ICD-10-CM |
| S36.232  | Laceration of tail of pancreas, unspecified degree                                   | Diagnosis     | ICD-10-CM |
| S36.232A | Laceration of tail of pancreas, unspecified degree, initial encounter                | Diagnosis     | ICD-10-CM |
| S36.232D | Laceration of tail of pancreas, unspecified degree, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S36.232S | Laceration of tail of pancreas, unspecified degree, sequela                          | Diagnosis     | ICD-10-CM |
| S36.239  | Laceration of unspecified part of pancreas, unspecified degree                       | Diagnosis     | ICD-10-CM |
| S36.239A | Laceration of unspecified part of pancreas, unspecified degree, initial encounter    | Diagnosis     | ICD-10-CM |
| S36.239D | Laceration of unspecified part of pancreas, unspecified degree, subsequent encounter | Diagnosis     | ICD-10-CM |
| S36.239S | Laceration of unspecified part of pancreas, unspecified degree, sequela              | Diagnosis     | ICD-10-CM |
| S36.24   | Minor laceration of pancreas   | Diagnosis     | ICD-10-CM |
| S36.240  | Minor laceration of head of pancreas   | Diagnosis     | ICD-10-CM |
| S36.240A | Minor laceration of head of pancreas, initial encounter                              | Diagnosis     | ICD-10-CM |
| S36.240D | Minor laceration of head of pancreas, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S36.240S | Minor laceration of head of pancreas, sequela  | Diagnosis     | ICD-10-CM |
| S36.241  | Minor laceration of body of pancreas   | Diagnosis     | ICD-10-CM |
| S36.241A | Minor laceration of body of pancreas, initial encounter                              | Diagnosis     | ICD-10-CM |
| S36.241D | Minor laceration of body of pancreas, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S36.241S | Minor laceration of body of pancreas, sequela  | Diagnosis     | ICD-10-CM |
| S36.242  | Minor laceration of tail of pancreas   | Diagnosis     | ICD-10-CM |
| S36.242A | Minor laceration of tail of pancreas, initial encounter                              | Diagnosis     | ICD-10-CM |
| S36.242D | Minor laceration of tail of pancreas, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S36.242S | Minor laceration of tail of pancreas, sequela  | Diagnosis     | ICD-10-CM |
| S36.249  | Minor laceration of unspecified part of pancreas                                     | Diagnosis     | ICD-10-CM |
| S36.249A | Minor laceration of unspecified part of pancreas, initial encounter                  | Diagnosis     | ICD-10-CM |
| S36.249D | Minor laceration of unspecified part of pancreas, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S36.249S | Minor laceration of unspecified part of pancreas, sequela                            | Diagnosis     | ICD-10-CM |
| S36.25   | Moderate laceration of pancreas  | Diagnosis     | ICD-10-CM |
| S36.250  | Moderate laceration of head of pancreas  | Diagnosis     | ICD-10-CM |
| S36.250A | Moderate laceration of head of pancreas, initial encounter                           | Diagnosis     | ICD-10-CM |
| S36.250D | Moderate laceration of head of pancreas, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S36.250S | Moderate laceration of head of pancreas, sequela                                     | Diagnosis     | ICD-10-CM |
| S36.251  | Moderate laceration of body of pancreas  | Diagnosis     | ICD-10-CM |
| S36.251A | Moderate laceration of body of pancreas, initial encounter                           | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S36.251D | Moderate laceration of body of pancreas, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S36.251S | Moderate laceration of body of pancreas, sequela                          | Diagnosis     | ICD-10-CM |
| S36.252  | Moderate laceration of tail of pancreas                                   | Diagnosis     | ICD-10-CM |
| S36.252A | Moderate laceration of tail of pancreas, initial encounter                | Diagnosis     | ICD-10-CM |
| S36.252D | Moderate laceration of tail of pancreas, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S36.252S | Moderate laceration of tail of pancreas, sequela                          | Diagnosis     | ICD-10-CM |
| S36.259  | Moderate laceration of unspecified part of pancreas                       | Diagnosis     | ICD-10-CM |
| S36.259A | Moderate laceration of unspecified part of pancreas, initial encounter    | Diagnosis     | ICD-10-CM |
| S36.259D | Moderate laceration of unspecified part of pancreas, subsequent encounter | Diagnosis     | ICD-10-CM |
| S36.259S | Moderate laceration of unspecified part of pancreas, sequela              | Diagnosis     | ICD-10-CM |
| S36.26   | Major laceration of pancreas  | Diagnosis     | ICD-10-CM |
| S36.260  | Major laceration of head of pancreas                                      | Diagnosis     | ICD-10-CM |
| S36.260A | Major laceration of head of pancreas, initial encounter                   | Diagnosis     | ICD-10-CM |
| S36.260D | Major laceration of head of pancreas, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S36.260S | Major laceration of head of pancreas, sequela                             | Diagnosis     | ICD-10-CM |
| S36.261  | Major laceration of body of pancreas                                      | Diagnosis     | ICD-10-CM |
| S36.261A | Major laceration of body of pancreas, initial encounter                   | Diagnosis     | ICD-10-CM |
| S36.261D | Major laceration of body of pancreas, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S36.261S | Major laceration of body of pancreas, sequela                             | Diagnosis     | ICD-10-CM |
| S36.262  | Major laceration of tail of pancreas                                      | Diagnosis     | ICD-10-CM |
| S36.262A | Major laceration of tail of pancreas, initial encounter                   | Diagnosis     | ICD-10-CM |
| S36.262D | Major laceration of tail of pancreas, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S36.262S | Major laceration of tail of pancreas, sequela                             | Diagnosis     | ICD-10-CM |
| S36.269  | Major laceration of unspecified part of pancreas                          | Diagnosis     | ICD-10-CM |
| S36.269A | Major laceration of unspecified part of pancreas, initial encounter       | Diagnosis     | ICD-10-CM |
| S36.269D | Major laceration of unspecified part of pancreas, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S36.269S | Major laceration of unspecified part of pancreas, sequela                 | Diagnosis     | ICD-10-CM |
| S36.29   | Other injury of pancreas  | Diagnosis     | ICD-10-CM |
| S36.290  | Other injury of head of pancreas  | Diagnosis     | ICD-10-CM |
| S36.290A | Other injury of head of pancreas, initial encounter                       | Diagnosis     | ICD-10-CM |
| S36.290D | Other injury of head of pancreas, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S36.290S | Other injury of head of pancreas, sequela                                 | Diagnosis     | ICD-10-CM |
| S36.291  | Other injury of body of pancreas  | Diagnosis     | ICD-10-CM |
| S36.291A | Other injury of body of pancreas, initial encounter                       | Diagnosis     | ICD-10-CM |
| S36.291D | Other injury of body of pancreas, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S36.291S | Other injury of body of pancreas, sequela                                 | Diagnosis     | ICD-10-CM |
| S36.292  | Other injury of tail of pancreas  | Diagnosis     | ICD-10-CM |
| S36.292A | Other injury of tail of pancreas, initial encounter                       | Diagnosis     | ICD-10-CM |
| S36.292D | Other injury of tail of pancreas, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S36.292S | Other injury of tail of pancreas, sequela                                 | Diagnosis     | ICD-10-CM |
| S36.299  | Other injury of unspecified part of pancreas                              | Diagnosis     | ICD-10-CM |
| S36.299A | Other injury of unspecified part of pancreas, initial encounter           | Diagnosis     | ICD-10-CM |
| S36.299D | Other injury of unspecified part of pancreas, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S36.299S | Other injury of unspecified part of pancreas, sequela                     | Diagnosis     | ICD-10-CM |
| S36.3    | Injury of stomach   | Diagnosis     | ICD-10-CM |
| S36.30   | Unspecified injury of stomach   | Diagnosis     | ICD-10-CM |
| S36.30XA | Unspecified injury of stomach, initial encounter                          | Diagnosis     | ICD-10-CM |
| S36.30XD | Unspecified injury of stomach, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S36.30XS | Unspecified injury of stomach, sequela                                    | Diagnosis     | ICD-10-CM |
| S36.32   | Contusion of stomach  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S36.32XA | Contusion of stomach, initial encounter   | Diagnosis     | ICD-10-CM |
| S36.32XD | Contusion of stomach, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S36.32XS | Contusion of stomach, sequela   | Diagnosis     | ICD-10-CM |
| S36.33   | Laceration of stomach   | Diagnosis     | ICD-10-CM |
| S36.33XA | Laceration of stomach, initial encounter  | Diagnosis     | ICD-10-CM |
| S36.33XD | Laceration of stomach, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S36.33XS | Laceration of stomach, sequela  | Diagnosis     | ICD-10-CM |
| S36.39   | Other injury of stomach   | Diagnosis     | ICD-10-CM |
| S36.39XA | Other injury of stomach, initial encounter  | Diagnosis     | ICD-10-CM |
| S36.39XD | Other injury of stomach, subsequent encounter                                     | Diagnosis     | ICD-10-CM |
| S36.39XS | Other injury of stomach, sequela  | Diagnosis     | ICD-10-CM |
| S36.4    | Injury of small intestine   | Diagnosis     | ICD-10-CM |
| S36.40   | Unspecified injury of small intestine   | Diagnosis     | ICD-10-CM |
| S36.400  | Unspecified injury of duodenum  | Diagnosis     | ICD-10-CM |
| S36.400A | Unspecified injury of duodenum, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S36.400D | Unspecified injury of duodenum, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S36.400S | Unspecified injury of duodenum, sequela   | Diagnosis     | ICD-10-CM |
| S36.408  | Unspecified injury of other part of small intestine                               | Diagnosis     | ICD-10-CM |
| S36.408A | Unspecified injury of other part of small intestine, initial encounter            | Diagnosis     | ICD-10-CM |
| S36.408D | Unspecified injury of other part of small intestine, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S36.408S | Unspecified injury of other part of small intestine, sequela                      | Diagnosis     | ICD-10-CM |
| S36.409  | Unspecified injury of unspecified part of small intestine                         | Diagnosis     | ICD-10-CM |
| S36.409A | Unspecified injury of unspecified part of small intestine, initial encounter      | Diagnosis     | ICD-10-CM |
| S36.409D | Unspecified injury of unspecified part of small intestine, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S36.409S | Unspecified injury of unspecified part of small intestine, sequela                | Diagnosis     | ICD-10-CM |
| S36.41   | Primary blast injury of small intestine   | Diagnosis     | ICD-10-CM |
| S36.410  | Primary blast injury of duodenum  | Diagnosis     | ICD-10-CM |
| S36.410A | Primary blast injury of duodenum, initial encounter                               | Diagnosis     | ICD-10-CM |
| S36.410D | Primary blast injury of duodenum, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S36.410S | Primary blast injury of duodenum, sequela   | Diagnosis     | ICD-10-CM |
| S36.418  | Primary blast injury of other part of small intestine                             | Diagnosis     | ICD-10-CM |
| S36.418A | Primary blast injury of other part of small intestine, initial encounter          | Diagnosis     | ICD-10-CM |
| S36.418D | Primary blast injury of other part of small intestine, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S36.418S | Primary blast injury of other part of small intestine, sequela                    | Diagnosis     | ICD-10-CM |
| S36.419  | Primary blast injury of unspecified part of small intestine                       | Diagnosis     | ICD-10-CM |
| S36.419A | Primary blast injury of unspecified part of small intestine, initial encounter    | Diagnosis     | ICD-10-CM |
| S36.419D | Primary blast injury of unspecified part of small intestine, subsequent encounter | Diagnosis     | ICD-10-CM |
| S36.419S | Primary blast injury of unspecified part of small intestine, sequela              | Diagnosis     | ICD-10-CM |
| S36.42   | Contusion of small intestine  | Diagnosis     | ICD-10-CM |
| S36.420  | Contusion of duodenum   | Diagnosis     | ICD-10-CM |
| S36.420A | Contusion of duodenum, initial encounter  | Diagnosis     | ICD-10-CM |
| S36.420D | Contusion of duodenum, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S36.420S | Contusion of duodenum, sequela  | Diagnosis     | ICD-10-CM |
| S36.428  | Contusion of other part of small intestine  | Diagnosis     | ICD-10-CM |
| S36.428A | Contusion of other part of small intestine, initial encounter                     | Diagnosis     | ICD-10-CM |
| S36.428D | Contusion of other part of small intestine, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S36.428S | Contusion of other part of small intestine, sequela                               | Diagnosis     | ICD-10-CM |
| S36.429  | Contusion of unspecified part of small intestine                                  | Diagnosis     | ICD-10-CM |
| S36.429A | Contusion of unspecified part of small intestine, initial encounter               | Diagnosis     | ICD-10-CM |
| S36.429D | Contusion of unspecified part of small intestine, subsequent encounter            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S36.429S | Contusion of unspecified part of small intestine, sequela                 | Diagnosis     | ICD-10-CM |
| S36.43   | Laceration of small intestine   | Diagnosis     | ICD-10-CM |
| S36.430  | Laceration of duodenum  | Diagnosis     | ICD-10-CM |
| S36.430A | Laceration of duodenum, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S36.430D | Laceration of duodenum, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S36.430S | Laceration of duodenum, sequela   | Diagnosis     | ICD-10-CM |
| S36.438  | Laceration of other part of small intestine                               | Diagnosis     | ICD-10-CM |
| S36.438A | Laceration of other part of small intestine, initial encounter            | Diagnosis     | ICD-10-CM |
| S36.438D | Laceration of other part of small intestine, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S36.438S | Laceration of other part of small intestine, sequela                      | Diagnosis     | ICD-10-CM |
| S36.439  | Laceration of unspecified part of small intestine                         | Diagnosis     | ICD-10-CM |
| S36.439A | Laceration of unspecified part of small intestine, initial encounter      | Diagnosis     | ICD-10-CM |
| S36.439D | Laceration of unspecified part of small intestine, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S36.439S | Laceration of unspecified part of small intestine, sequela                | Diagnosis     | ICD-10-CM |
| S36.49   | Other injury of small intestine   | Diagnosis     | ICD-10-CM |
| S36.490  | Other injury of duodenum  | Diagnosis     | ICD-10-CM |
| S36.490A | Other injury of duodenum, initial encounter                               | Diagnosis     | ICD-10-CM |
| S36.490D | Other injury of duodenum, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S36.490S | Other injury of duodenum, sequela   | Diagnosis     | ICD-10-CM |
| S36.498  | Other injury of other part of small intestine                             | Diagnosis     | ICD-10-CM |
| S36.498A | Other injury of other part of small intestine, initial encounter          | Diagnosis     | ICD-10-CM |
| S36.498D | Other injury of other part of small intestine, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S36.498S | Other injury of other part of small intestine, sequela                    | Diagnosis     | ICD-10-CM |
| S36.499  | Other injury of unspecified part of small intestine                       | Diagnosis     | ICD-10-CM |
| S36.499A | Other injury of unspecified part of small intestine, initial encounter    | Diagnosis     | ICD-10-CM |
| S36.499D | Other injury of unspecified part of small intestine, subsequent encounter | Diagnosis     | ICD-10-CM |
| S36.499S | Other injury of unspecified part of small intestine, sequela              | Diagnosis     | ICD-10-CM |
| S36.5    | Injury of colon   | Diagnosis     | ICD-10-CM |
| S36.50   | Unspecified injury of colon   | Diagnosis     | ICD-10-CM |
| S36.500  | Unspecified injury of ascending [right] colon                             | Diagnosis     | ICD-10-CM |
| S36.500A | Unspecified injury of ascending [right] colon, initial encounter          | Diagnosis     | ICD-10-CM |
| S36.500D | Unspecified injury of ascending [right] colon, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S36.500S | Unspecified injury of ascending [right] colon, sequela                    | Diagnosis     | ICD-10-CM |
| S36.501  | Unspecified injury of transverse colon                                    | Diagnosis     | ICD-10-CM |
| S36.501A | Unspecified injury of transverse colon, initial encounter                 | Diagnosis     | ICD-10-CM |
| S36.501D | Unspecified injury of transverse colon, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S36.501S | Unspecified injury of transverse colon, sequela                           | Diagnosis     | ICD-10-CM |
| S36.502  | Unspecified injury of descending [left] colon                             | Diagnosis     | ICD-10-CM |
| S36.502A | Unspecified injury of descending [left] colon, initial encounter          | Diagnosis     | ICD-10-CM |
| S36.502D | Unspecified injury of descending [left] colon, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S36.502S | Unspecified injury of descending [left] colon, sequela                    | Diagnosis     | ICD-10-CM |
| S36.503  | Unspecified injury of sigmoid colon                                       | Diagnosis     | ICD-10-CM |
| S36.503A | Unspecified injury of sigmoid colon, initial encounter                    | Diagnosis     | ICD-10-CM |
| S36.503D | Unspecified injury of sigmoid colon, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S36.503S | Unspecified injury of sigmoid colon, sequela                              | Diagnosis     | ICD-10-CM |
| S36.508  | Unspecified injury of other part of colon                                 | Diagnosis     | ICD-10-CM |
| S36.508A | Unspecified injury of other part of colon, initial encounter              | Diagnosis     | ICD-10-CM |
| S36.508D | Unspecified injury of other part of colon, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S36.508S | Unspecified injury of other part of colon, sequela                        | Diagnosis     | ICD-10-CM |
| S36.509  | Unspecified injury of unspecified part of colon                           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S36.509A | Unspecified injury of unspecified part of colon, initial encounter      | Diagnosis     | ICD-10-CM |
| S36.509D | Unspecified injury of unspecified part of colon, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S36.509S | Unspecified injury of unspecified part of colon, sequela                | Diagnosis     | ICD-10-CM |
| S36.51   | Primary blast injury of colon   | Diagnosis     | ICD-10-CM |
| S36.510  | Primary blast injury of ascending [right] colon                         | Diagnosis     | ICD-10-CM |
| S36.510A | Primary blast injury of ascending [right] colon, initial encounter      | Diagnosis     | ICD-10-CM |
| S36.510D | Primary blast injury of ascending [right] colon, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S36.510S | Primary blast injury of ascending [right] colon, sequela                | Diagnosis     | ICD-10-CM |
| S36.511  | Primary blast injury of transverse colon                                | Diagnosis     | ICD-10-CM |
| S36.511A | Primary blast injury of transverse colon, initial encounter             | Diagnosis     | ICD-10-CM |
| S36.511D | Primary blast injury of transverse colon, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S36.511S | Primary blast injury of transverse colon, sequela                       | Diagnosis     | ICD-10-CM |
| S36.512  | Primary blast injury of descending [left] colon                         | Diagnosis     | ICD-10-CM |
| S36.512A | Primary blast injury of descending [left] colon, initial encounter      | Diagnosis     | ICD-10-CM |
| S36.512D | Primary blast injury of descending [left] colon, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S36.512S | Primary blast injury of descending [left] colon, sequela                | Diagnosis     | ICD-10-CM |
| S36.513  | Primary blast injury of sigmoid colon                                   | Diagnosis     | ICD-10-CM |
| S36.513A | Primary blast injury of sigmoid colon, initial encounter                | Diagnosis     | ICD-10-CM |
| S36.513D | Primary blast injury of sigmoid colon, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S36.513S | Primary blast injury of sigmoid colon, sequela                          | Diagnosis     | ICD-10-CM |
| S36.518  | Primary blast injury of other part of colon                             | Diagnosis     | ICD-10-CM |
| S36.518A | Primary blast injury of other part of colon, initial encounter          | Diagnosis     | ICD-10-CM |
| S36.518D | Primary blast injury of other part of colon, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S36.518S | Primary blast injury of other part of colon, sequela                    | Diagnosis     | ICD-10-CM |
| S36.519  | Primary blast injury of unspecified part of colon                       | Diagnosis     | ICD-10-CM |
| S36.519A | Primary blast injury of unspecified part of colon, initial encounter    | Diagnosis     | ICD-10-CM |
| S36.519D | Primary blast injury of unspecified part of colon, subsequent encounter | Diagnosis     | ICD-10-CM |
| S36.519S | Primary blast injury of unspecified part of colon, sequela              | Diagnosis     | ICD-10-CM |
| S36.52   | Contusion of colon  | Diagnosis     | ICD-10-CM |
| S36.520  | Contusion of ascending [right] colon                                    | Diagnosis     | ICD-10-CM |
| S36.520A | Contusion of ascending [right] colon, initial encounter                 | Diagnosis     | ICD-10-CM |
| S36.520D | Contusion of ascending [right] colon, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S36.520S | Contusion of ascending [right] colon, sequela                           | Diagnosis     | ICD-10-CM |
| S36.521  | Contusion of transverse colon   | Diagnosis     | ICD-10-CM |
| S36.521A | Contusion of transverse colon, initial encounter                        | Diagnosis     | ICD-10-CM |
| S36.521D | Contusion of transverse colon, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S36.521S | Contusion of transverse colon, sequela                                  | Diagnosis     | ICD-10-CM |
| S36.522  | Contusion of descending [left] colon                                    | Diagnosis     | ICD-10-CM |
| S36.522A | Contusion of descending [left] colon, initial encounter                 | Diagnosis     | ICD-10-CM |
| S36.522D | Contusion of descending [left] colon, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S36.522S | Contusion of descending [left] colon, sequela                           | Diagnosis     | ICD-10-CM |
| S36.523  | Contusion of sigmoid colon  | Diagnosis     | ICD-10-CM |
| S36.523A | Contusion of sigmoid colon, initial encounter                           | Diagnosis     | ICD-10-CM |
| S36.523D | Contusion of sigmoid colon, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S36.523S | Contusion of sigmoid colon, sequela                                     | Diagnosis     | ICD-10-CM |
| S36.528  | Contusion of other part of colon  | Diagnosis     | ICD-10-CM |
| S36.528A | Contusion of other part of colon, initial encounter                     | Diagnosis     | ICD-10-CM |
| S36.528D | Contusion of other part of colon, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S36.528S | Contusion of other part of colon, sequela                               | Diagnosis     | ICD-10-CM |
| S36.529  | Contusion of unspecified part of colon                                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S36.529A | Contusion of unspecified part of colon, initial encounter     | Diagnosis     | ICD-10-CM |
| S36.529D | Contusion of unspecified part of colon, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S36.529S | Contusion of unspecified part of colon, sequela               | Diagnosis     | ICD-10-CM |
| S36.53   | Laceration of colon   | Diagnosis     | ICD-10-CM |
| S36.530  | Laceration of ascending [right] colon                         | Diagnosis     | ICD-10-CM |
| S36.530A | Laceration of ascending [right] colon, initial encounter      | Diagnosis     | ICD-10-CM |
| S36.530D | Laceration of ascending [right] colon, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S36.530S | Laceration of ascending [right] colon, sequela                | Diagnosis     | ICD-10-CM |
| S36.531  | Laceration of transverse colon                                | Diagnosis     | ICD-10-CM |
| S36.531A | Laceration of transverse colon, initial encounter             | Diagnosis     | ICD-10-CM |
| S36.531D | Laceration of transverse colon, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S36.531S | Laceration of transverse colon, sequela                       | Diagnosis     | ICD-10-CM |
| S36.532  | Laceration of descending [left] colon                         | Diagnosis     | ICD-10-CM |
| S36.532A | Laceration of descending [left] colon, initial encounter      | Diagnosis     | ICD-10-CM |
| S36.532D | Laceration of descending [left] colon, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S36.532S | Laceration of descending [left] colon, sequela                | Diagnosis     | ICD-10-CM |
| S36.533  | Laceration of sigmoid colon                                   | Diagnosis     | ICD-10-CM |
| S36.533A | Laceration of sigmoid colon, initial encounter                | Diagnosis     | ICD-10-CM |
| S36.533D | Laceration of sigmoid colon, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S36.533S | Laceration of sigmoid colon, sequela                          | Diagnosis     | ICD-10-CM |
| S36.538  | Laceration of other part of colon                             | Diagnosis     | ICD-10-CM |
| S36.538A | Laceration of other part of colon, initial encounter          | Diagnosis     | ICD-10-CM |
| S36.538D | Laceration of other part of colon, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S36.538S | Laceration of other part of colon, sequela                    | Diagnosis     | ICD-10-CM |
| S36.539  | Laceration of unspecified part of colon                       | Diagnosis     | ICD-10-CM |
| S36.539A | Laceration of unspecified part of colon, initial encounter    | Diagnosis     | ICD-10-CM |
| S36.539D | Laceration of unspecified part of colon, subsequent encounter | Diagnosis     | ICD-10-CM |
| S36.539S | Laceration of unspecified part of colon, sequela              | Diagnosis     | ICD-10-CM |
| S36.59   | Other injury of colon   | Diagnosis     | ICD-10-CM |
| S36.590  | Other injury of ascending [right] colon                       | Diagnosis     | ICD-10-CM |
| S36.590A | Other injury of ascending [right] colon, initial encounter    | Diagnosis     | ICD-10-CM |
| S36.590D | Other injury of ascending [right] colon, subsequent encounter | Diagnosis     | ICD-10-CM |
| S36.590S | Other injury of ascending [right] colon, sequela              | Diagnosis     | ICD-10-CM |
| S36.591  | Other injury of transverse colon                              | Diagnosis     | ICD-10-CM |
| S36.591A | Other injury of transverse colon, initial encounter           | Diagnosis     | ICD-10-CM |
| S36.591D | Other injury of transverse colon, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S36.591S | Other injury of transverse colon, sequela                     | Diagnosis     | ICD-10-CM |
| S36.592  | Other injury of descending [left] colon                       | Diagnosis     | ICD-10-CM |
| S36.592A | Other injury of descending [left] colon, initial encounter    | Diagnosis     | ICD-10-CM |
| S36.592D | Other injury of descending [left] colon, subsequent encounter | Diagnosis     | ICD-10-CM |
| S36.592S | Other injury of descending [left] colon, sequela              | Diagnosis     | ICD-10-CM |
| S36.593  | Other injury of sigmoid colon                                 | Diagnosis     | ICD-10-CM |
| S36.593A | Other injury of sigmoid colon, initial encounter              | Diagnosis     | ICD-10-CM |
| S36.593D | Other injury of sigmoid colon, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S36.593S | Other injury of sigmoid colon, sequela                        | Diagnosis     | ICD-10-CM |
| S36.598  | Other injury of other part of colon                           | Diagnosis     | ICD-10-CM |
| S36.598A | Other injury of other part of colon, initial encounter        | Diagnosis     | ICD-10-CM |
| S36.598D | Other injury of other part of colon, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S36.598S | Other injury of other part of colon, sequela                  | Diagnosis     | ICD-10-CM |
| S36.599  | Other injury of unspecified part of colon                     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S36.599A | Other injury of unspecified part of colon, initial encounter                  | Diagnosis     | ICD-10-CM |
| S36.599D | Other injury of unspecified part of colon, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S36.599S | Other injury of unspecified part of colon, sequela                            | Diagnosis     | ICD-10-CM |
| S36.6    | Injury of rectum  | Diagnosis     | ICD-10-CM |
| S36.60   | Unspecified injury of rectum  | Diagnosis     | ICD-10-CM |
| S36.60XA | Unspecified injury of rectum, initial encounter                               | Diagnosis     | ICD-10-CM |
| S36.60XD | Unspecified injury of rectum, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S36.60XS | Unspecified injury of rectum, sequela   | Diagnosis     | ICD-10-CM |
| S36.61   | Primary blast injury of rectum  | Diagnosis     | ICD-10-CM |
| S36.61XA | Primary blast injury of rectum, initial encounter                             | Diagnosis     | ICD-10-CM |
| S36.61XD | Primary blast injury of rectum, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S36.61XS | Primary blast injury of rectum, sequela                                       | Diagnosis     | ICD-10-CM |
| S36.62   | Contusion of rectum   | Diagnosis     | ICD-10-CM |
| S36.62XA | Contusion of rectum, initial encounter  | Diagnosis     | ICD-10-CM |
| S36.62XD | Contusion of rectum, subsequent encounter                                     | Diagnosis     | ICD-10-CM |
| S36.62XS | Contusion of rectum, sequela  | Diagnosis     | ICD-10-CM |
| S36.63   | Laceration of rectum  | Diagnosis     | ICD-10-CM |
| S36.63XA | Laceration of rectum, initial encounter                                       | Diagnosis     | ICD-10-CM |
| S36.63XD | Laceration of rectum, subsequent encounter                                    | Diagnosis     | ICD-10-CM |
| S36.63XS | Laceration of rectum, sequela   | Diagnosis     | ICD-10-CM |
| S36.69   | Other injury of rectum  | Diagnosis     | ICD-10-CM |
| S36.69XA | Other injury of rectum, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S36.69XD | Other injury of rectum, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S36.69XS | Other injury of rectum, sequela   | Diagnosis     | ICD-10-CM |
| S36.8    | Injury of other intra-abdominal organs  | Diagnosis     | ICD-10-CM |
| S36.81   | Injury of peritoneum  | Diagnosis     | ICD-10-CM |
| S36.81XA | Injury of peritoneum, initial encounter                                       | Diagnosis     | ICD-10-CM |
| S36.81XD | Injury of peritoneum, subsequent encounter                                    | Diagnosis     | ICD-10-CM |
| S36.81XS | Injury of peritoneum, sequela   | Diagnosis     | ICD-10-CM |
| S36.89   | Injury of other intra-abdominal organs  | Diagnosis     | ICD-10-CM |
| S36.892  | Contusion of other intra-abdominal organs                                     | Diagnosis     | ICD-10-CM |
| S36.892A | Contusion of other intra-abdominal organs, initial encounter                  | Diagnosis     | ICD-10-CM |
| S36.892D | Contusion of other intra-abdominal organs, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S36.892S | Contusion of other intra-abdominal organs, sequela                            | Diagnosis     | ICD-10-CM |
| S36.893  | Laceration of other intra-abdominal organs                                    | Diagnosis     | ICD-10-CM |
| S36.893A | Laceration of other intra-abdominal organs, initial encounter                 | Diagnosis     | ICD-10-CM |
| S36.893D | Laceration of other intra-abdominal organs, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S36.893S | Laceration of other intra-abdominal organs, sequela                           | Diagnosis     | ICD-10-CM |
| S36.898  | Other injury of other intra-abdominal organs                                  | Diagnosis     | ICD-10-CM |
| S36.898A | Other injury of other intra-abdominal organs, initial encounter               | Diagnosis     | ICD-10-CM |
| S36.898D | Other injury of other intra-abdominal organs, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S36.898S | Other injury of other intra-abdominal organs, sequela                         | Diagnosis     | ICD-10-CM |
| S36.899  | Unspecified injury of other intra-abdominal organs                            | Diagnosis     | ICD-10-CM |
| S36.899A | Unspecified injury of other intra-abdominal organs, initial encounter         | Diagnosis     | ICD-10-CM |
| S36.899D | Unspecified injury of other intra-abdominal organs, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S36.899S | Unspecified injury of other intra-abdominal organs, sequela                   | Diagnosis     | ICD-10-CM |
| S36.9    | Injury of unspecified intra-abdominal organ                                   | Diagnosis     | ICD-10-CM |
| S36.90   | Unspecified injury of unspecified intra-abdominal organ                       | Diagnosis     | ICD-10-CM |
| S36.90XA | Unspecified injury of unspecified intra-abdominal organ, initial encounter    | Diagnosis     | ICD-10-CM |
| S36.90XD | Unspecified injury of unspecified intra-abdominal organ, subsequent encounter | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S36.90XS | Unspecified injury of unspecified intra-abdominal organ, sequela        | Diagnosis     | ICD-10-CM |
| S36.92   | Contusion of unspecified intra-abdominal organ                          | Diagnosis     | ICD-10-CM |
| S36.92XA | Contusion of unspecified intra-abdominal organ, initial encounter       | Diagnosis     | ICD-10-CM |
| S36.92XD | Contusion of unspecified intra-abdominal organ, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S36.92XS | Contusion of unspecified intra-abdominal organ, sequela                 | Diagnosis     | ICD-10-CM |
| S36.93   | Laceration of unspecified intra-abdominal organ                         | Diagnosis     | ICD-10-CM |
| S36.93XA | Laceration of unspecified intra-abdominal organ, initial encounter      | Diagnosis     | ICD-10-CM |
| S36.93XD | Laceration of unspecified intra-abdominal organ, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S36.93XS | Laceration of unspecified intra-abdominal organ, sequela                | Diagnosis     | ICD-10-CM |
| S36.99   | Other injury of unspecified intra-abdominal organ                       | Diagnosis     | ICD-10-CM |
| S36.99XA | Other injury of unspecified intra-abdominal organ, initial encounter    | Diagnosis     | ICD-10-CM |
| S36.99XD | Other injury of unspecified intra-abdominal organ, subsequent encounter | Diagnosis     | ICD-10-CM |
| S36.99XS | Other injury of unspecified intra-abdominal organ, sequela              | Diagnosis     | ICD-10-CM |
| S37      | Injury of urinary and pelvic organs                                     | Diagnosis     | ICD-10-CM |
| S37.0    | Injury of kidney  | Diagnosis     | ICD-10-CM |
| S37.00   | Unspecified injury of kidney  | Diagnosis     | ICD-10-CM |
| S37.001  | Unspecified injury of right kidney                                      | Diagnosis     | ICD-10-CM |
| S37.001A | Unspecified injury of right kidney, initial encounter                   | Diagnosis     | ICD-10-CM |
| S37.001D | Unspecified injury of right kidney, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S37.001S | Unspecified injury of right kidney, sequela                             | Diagnosis     | ICD-10-CM |
| S37.002  | Unspecified injury of left kidney                                       | Diagnosis     | ICD-10-CM |
| S37.002A | Unspecified injury of left kidney, initial encounter                    | Diagnosis     | ICD-10-CM |
| S37.002D | Unspecified injury of left kidney, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S37.002S | Unspecified injury of left kidney, sequela                              | Diagnosis     | ICD-10-CM |
| S37.009  | Unspecified injury of unspecified kidney                                | Diagnosis     | ICD-10-CM |
| S37.009A | Unspecified injury of unspecified kidney, initial encounter             | Diagnosis     | ICD-10-CM |
| S37.009D | Unspecified injury of unspecified kidney, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S37.009S | Unspecified injury of unspecified kidney, sequela                       | Diagnosis     | ICD-10-CM |
| S37.01   | Minor contusion of kidney   | Diagnosis     | ICD-10-CM |
| S37.011  | Minor contusion of right kidney   | Diagnosis     | ICD-10-CM |
| S37.011A | Minor contusion of right kidney, initial encounter                      | Diagnosis     | ICD-10-CM |
| S37.011D | Minor contusion of right kidney, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S37.011S | Minor contusion of right kidney, sequela                                | Diagnosis     | ICD-10-CM |
| S37.012  | Minor contusion of left kidney  | Diagnosis     | ICD-10-CM |
| S37.012A | Minor contusion of left kidney, initial encounter                       | Diagnosis     | ICD-10-CM |
| S37.012D | Minor contusion of left kidney, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S37.012S | Minor contusion of left kidney, sequela                                 | Diagnosis     | ICD-10-CM |
| S37.019  | Minor contusion of unspecified kidney                                   | Diagnosis     | ICD-10-CM |
| S37.019A | Minor contusion of unspecified kidney, initial encounter                | Diagnosis     | ICD-10-CM |
| S37.019D | Minor contusion of unspecified kidney, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S37.019S | Minor contusion of unspecified kidney, sequela                          | Diagnosis     | ICD-10-CM |
| S37.02   | Major contusion of kidney   | Diagnosis     | ICD-10-CM |
| S37.021  | Major contusion of right kidney   | Diagnosis     | ICD-10-CM |
| S37.021A | Major contusion of right kidney, initial encounter                      | Diagnosis     | ICD-10-CM |
| S37.021D | Major contusion of right kidney, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S37.021S | Major contusion of right kidney, sequela                                | Diagnosis     | ICD-10-CM |
| S37.022  | Major contusion of left kidney  | Diagnosis     | ICD-10-CM |
| S37.022A | Major contusion of left kidney, initial encounter                       | Diagnosis     | ICD-10-CM |
| S37.022D | Major contusion of left kidney, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S37.022S | Major contusion of left kidney, sequela                                 | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S37.029  | Major contusion of unspecified kidney                                      | Diagnosis     | ICD-10-CM |
| S37.029A | Major contusion of unspecified kidney, initial encounter                   | Diagnosis     | ICD-10-CM |
| S37.029D | Major contusion of unspecified kidney, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S37.029S | Major contusion of unspecified kidney, sequela                             | Diagnosis     | ICD-10-CM |
| S37.03   | Laceration of kidney, unspecified degree                                   | Diagnosis     | ICD-10-CM |
| S37.031  | Laceration of right kidney, unspecified degree                             | Diagnosis     | ICD-10-CM |
| S37.031A | Laceration of right kidney, unspecified degree, initial encounter          | Diagnosis     | ICD-10-CM |
| S37.031D | Laceration of right kidney, unspecified degree, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S37.031S | Laceration of right kidney, unspecified degree, sequela                    | Diagnosis     | ICD-10-CM |
| S37.032  | Laceration of left kidney, unspecified degree                              | Diagnosis     | ICD-10-CM |
| S37.032A | Laceration of left kidney, unspecified degree, initial encounter           | Diagnosis     | ICD-10-CM |
| S37.032D | Laceration of left kidney, unspecified degree, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S37.032S | Laceration of left kidney, unspecified degree, sequela                     | Diagnosis     | ICD-10-CM |
| S37.039  | Laceration of unspecified kidney, unspecified degree                       | Diagnosis     | ICD-10-CM |
| S37.039A | Laceration of unspecified kidney, unspecified degree, initial encounter    | Diagnosis     | ICD-10-CM |
| S37.039D | Laceration of unspecified kidney, unspecified degree, subsequent encounter | Diagnosis     | ICD-10-CM |
| S37.039S | Laceration of unspecified kidney, unspecified degree, sequela              | Diagnosis     | ICD-10-CM |
| S37.04   | Minor laceration of kidney   | Diagnosis     | ICD-10-CM |
| S37.041  | Minor laceration of right kidney   | Diagnosis     | ICD-10-CM |
| S37.041A | Minor laceration of right kidney, initial encounter                        | Diagnosis     | ICD-10-CM |
| S37.041D | Minor laceration of right kidney, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S37.041S | Minor laceration of right kidney, sequela                                  | Diagnosis     | ICD-10-CM |
| S37.042  | Minor laceration of left kidney  | Diagnosis     | ICD-10-CM |
| S37.042A | Minor laceration of left kidney, initial encounter                         | Diagnosis     | ICD-10-CM |
| S37.042D | Minor laceration of left kidney, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S37.042S | Minor laceration of left kidney, sequela                                   | Diagnosis     | ICD-10-CM |
| S37.049  | Minor laceration of unspecified kidney                                     | Diagnosis     | ICD-10-CM |
| S37.049A | Minor laceration of unspecified kidney, initial encounter                  | Diagnosis     | ICD-10-CM |
| S37.049D | Minor laceration of unspecified kidney, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S37.049S | Minor laceration of unspecified kidney, sequela                            | Diagnosis     | ICD-10-CM |
| S37.05   | Moderate laceration of kidney  | Diagnosis     | ICD-10-CM |
| S37.051  | Moderate laceration of right kidney  | Diagnosis     | ICD-10-CM |
| S37.051A | Moderate laceration of right kidney, initial encounter                     | Diagnosis     | ICD-10-CM |
| S37.051D | Moderate laceration of right kidney, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S37.051S | Moderate laceration of right kidney, sequela                               | Diagnosis     | ICD-10-CM |
| S37.052  | Moderate laceration of left kidney   | Diagnosis     | ICD-10-CM |
| S37.052A | Moderate laceration of left kidney, initial encounter                      | Diagnosis     | ICD-10-CM |
| S37.052D | Moderate laceration of left kidney, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S37.052S | Moderate laceration of left kidney, sequela                                | Diagnosis     | ICD-10-CM |
| S37.059  | Moderate laceration of unspecified kidney                                  | Diagnosis     | ICD-10-CM |
| S37.059A | Moderate laceration of unspecified kidney, initial encounter               | Diagnosis     | ICD-10-CM |
| S37.059D | Moderate laceration of unspecified kidney, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S37.059S | Moderate laceration of unspecified kidney, sequela                         | Diagnosis     | ICD-10-CM |
| S37.06   | Major laceration of kidney   | Diagnosis     | ICD-10-CM |
| S37.061  | Major laceration of right kidney   | Diagnosis     | ICD-10-CM |
| S37.061A | Major laceration of right kidney, initial encounter                        | Diagnosis     | ICD-10-CM |
| S37.061D | Major laceration of right kidney, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S37.061S | Major laceration of right kidney, sequela                                  | Diagnosis     | ICD-10-CM |
| S37.062  | Major laceration of left kidney  | Diagnosis     | ICD-10-CM |
| S37.062A | Major laceration of left kidney, initial encounter                         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S37.062D | Major laceration of left kidney, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S37.062S | Major laceration of left kidney, sequela                     | Diagnosis     | ICD-10-CM |
| S37.069  | Major laceration of unspecified kidney                       | Diagnosis     | ICD-10-CM |
| S37.069A | Major laceration of unspecified kidney, initial encounter    | Diagnosis     | ICD-10-CM |
| S37.069D | Major laceration of unspecified kidney, subsequent encounter | Diagnosis     | ICD-10-CM |
| S37.069S | Major laceration of unspecified kidney, sequela              | Diagnosis     | ICD-10-CM |
| S37.09   | Other injury of kidney                                       | Diagnosis     | ICD-10-CM |
| S37.091  | Other injury of right kidney                                 | Diagnosis     | ICD-10-CM |
| S37.091A | Other injury of right kidney, initial encounter              | Diagnosis     | ICD-10-CM |
| S37.091D | Other injury of right kidney, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S37.091S | Other injury of right kidney, sequela                        | Diagnosis     | ICD-10-CM |
| S37.092  | Other injury of left kidney                                  | Diagnosis     | ICD-10-CM |
| S37.092A | Other injury of left kidney, initial encounter               | Diagnosis     | ICD-10-CM |
| S37.092D | Other injury of left kidney, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S37.092S | Other injury of left kidney, sequela                         | Diagnosis     | ICD-10-CM |
| S37.099  | Other injury of unspecified kidney                           | Diagnosis     | ICD-10-CM |
| S37.099A | Other injury of unspecified kidney, initial encounter        | Diagnosis     | ICD-10-CM |
| S37.099D | Other injury of unspecified kidney, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S37.099S | Other injury of unspecified kidney, sequela                  | Diagnosis     | ICD-10-CM |
| S37.1    | Injury of ureter   | Diagnosis     | ICD-10-CM |
| S37.10   | Unspecified injury of ureter                                 | Diagnosis     | ICD-10-CM |
| S37.10XA | Unspecified injury of ureter, initial encounter              | Diagnosis     | ICD-10-CM |
| S37.10XD | Unspecified injury of ureter, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S37.10XS | Unspecified injury of ureter, sequela                        | Diagnosis     | ICD-10-CM |
| S37.12   | Contusion of ureter  | Diagnosis     | ICD-10-CM |
| S37.12XA | Contusion of ureter, initial encounter                       | Diagnosis     | ICD-10-CM |
| S37.12XD | Contusion of ureter, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S37.12XS | Contusion of ureter, sequela                                 | Diagnosis     | ICD-10-CM |
| S37.13   | Laceration of ureter   | Diagnosis     | ICD-10-CM |
| S37.13XA | Laceration of ureter, initial encounter                      | Diagnosis     | ICD-10-CM |
| S37.13XD | Laceration of ureter, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S37.13XS | Laceration of ureter, sequela                                | Diagnosis     | ICD-10-CM |
| S37.19   | Other injury of ureter                                       | Diagnosis     | ICD-10-CM |
| S37.19XA | Other injury of ureter, initial encounter                    | Diagnosis     | ICD-10-CM |
| S37.19XD | Other injury of ureter, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S37.19XS | Other injury of ureter, sequela                              | Diagnosis     | ICD-10-CM |
| S37.2    | Injury of bladder  | Diagnosis     | ICD-10-CM |
| S37.20   | Unspecified injury of bladder                                | Diagnosis     | ICD-10-CM |
| S37.20XA | Unspecified injury of bladder, initial encounter             | Diagnosis     | ICD-10-CM |
| S37.20XD | Unspecified injury of bladder, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S37.20XS | Unspecified injury of bladder, sequela                       | Diagnosis     | ICD-10-CM |
| S37.22   | Contusion of bladder   | Diagnosis     | ICD-10-CM |
| S37.22XA | Contusion of bladder, initial encounter                      | Diagnosis     | ICD-10-CM |
| S37.22XD | Contusion of bladder, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S37.22XS | Contusion of bladder, sequela                                | Diagnosis     | ICD-10-CM |
| S37.23   | Laceration of bladder  | Diagnosis     | ICD-10-CM |
| S37.23XA | Laceration of bladder, initial encounter                     | Diagnosis     | ICD-10-CM |
| S37.23XD | Laceration of bladder, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S37.23XS | Laceration of bladder, sequela                               | Diagnosis     | ICD-10-CM |
| S37.29   | Other injury of bladder                                      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S37.29XA | Other injury of bladder, initial encounter                     | Diagnosis     | ICD-10-CM |
| S37.29XD | Other injury of bladder, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S37.29XS | Other injury of bladder, sequela                               | Diagnosis     | ICD-10-CM |
| S37.3    | Injury of urethra  | Diagnosis     | ICD-10-CM |
| S37.30   | Unspecified injury of urethra                                  | Diagnosis     | ICD-10-CM |
| S37.30XA | Unspecified injury of urethra, initial encounter               | Diagnosis     | ICD-10-CM |
| S37.30XD | Unspecified injury of urethra, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S37.30XS | Unspecified injury of urethra, sequela                         | Diagnosis     | ICD-10-CM |
| S37.32   | Contusion of urethra   | Diagnosis     | ICD-10-CM |
| S37.32XA | Contusion of urethra, initial encounter                        | Diagnosis     | ICD-10-CM |
| S37.32XD | Contusion of urethra, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S37.32XS | Contusion of urethra, sequela                                  | Diagnosis     | ICD-10-CM |
| S37.33   | Laceration of urethra  | Diagnosis     | ICD-10-CM |
| S37.33XA | Laceration of urethra, initial encounter                       | Diagnosis     | ICD-10-CM |
| S37.33XD | Laceration of urethra, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S37.33XS | Laceration of urethra, sequela                                 | Diagnosis     | ICD-10-CM |
| S37.39   | Other injury of urethra  | Diagnosis     | ICD-10-CM |
| S37.39XA | Other injury of urethra, initial encounter                     | Diagnosis     | ICD-10-CM |
| S37.39XD | Other injury of urethra, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S37.39XS | Other injury of urethra, sequela                               | Diagnosis     | ICD-10-CM |
| S37.4    | Injury of ovary  | Diagnosis     | ICD-10-CM |
| S37.40   | Unspecified injury of ovary                                    | Diagnosis     | ICD-10-CM |
| S37.401  | Unspecified injury of ovary, unilateral                        | Diagnosis     | ICD-10-CM |
| S37.401A | Unspecified injury of ovary, unilateral, initial encounter     | Diagnosis     | ICD-10-CM |
| S37.401D | Unspecified injury of ovary, unilateral, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S37.401S | Unspecified injury of ovary, unilateral, sequela               | Diagnosis     | ICD-10-CM |
| S37.402  | Unspecified injury of ovary, bilateral                         | Diagnosis     | ICD-10-CM |
| S37.402A | Unspecified injury of ovary, bilateral, initial encounter      | Diagnosis     | ICD-10-CM |
| S37.402D | Unspecified injury of ovary, bilateral, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S37.402S | Unspecified injury of ovary, bilateral, sequela                | Diagnosis     | ICD-10-CM |
| S37.409  | Unspecified injury of ovary, unspecified                       | Diagnosis     | ICD-10-CM |
| S37.409A | Unspecified injury of ovary, unspecified, initial encounter    | Diagnosis     | ICD-10-CM |
| S37.409D | Unspecified injury of ovary, unspecified, subsequent encounter | Diagnosis     | ICD-10-CM |
| S37.409S | Unspecified injury of ovary, unspecified, sequela              | Diagnosis     | ICD-10-CM |
| S37.42   | Contusion of ovary   | Diagnosis     | ICD-10-CM |
| S37.421  | Contusion of ovary, unilateral                                 | Diagnosis     | ICD-10-CM |
| S37.421A | Contusion of ovary, unilateral, initial encounter              | Diagnosis     | ICD-10-CM |
| S37.421D | Contusion of ovary, unilateral, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S37.421S | Contusion of ovary, unilateral, sequela                        | Diagnosis     | ICD-10-CM |
| S37.422  | Contusion of ovary, bilateral                                  | Diagnosis     | ICD-10-CM |
| S37.422A | Contusion of ovary, bilateral, initial encounter               | Diagnosis     | ICD-10-CM |
| S37.422D | Contusion of ovary, bilateral, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S37.422S | Contusion of ovary, bilateral, sequela                         | Diagnosis     | ICD-10-CM |
| S37.429  | Contusion of ovary, unspecified                                | Diagnosis     | ICD-10-CM |
| S37.429A | Contusion of ovary, unspecified, initial encounter             | Diagnosis     | ICD-10-CM |
| S37.429D | Contusion of ovary, unspecified, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S37.429S | Contusion of ovary, unspecified, sequela                       | Diagnosis     | ICD-10-CM |
| S37.43   | Laceration of ovary  | Diagnosis     | ICD-10-CM |
| S37.431  | Laceration of ovary, unilateral                                | Diagnosis     | ICD-10-CM |
| S37.431A | Laceration of ovary, unilateral, initial encounter             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S37.431D | Laceration of ovary, unilateral, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S37.431S | Laceration of ovary, unilateral, sequela                                  | Diagnosis     | ICD-10-CM |
| S37.432  | Laceration of ovary, bilateral  | Diagnosis     | ICD-10-CM |
| S37.432A | Laceration of ovary, bilateral, initial encounter                         | Diagnosis     | ICD-10-CM |
| S37.432D | Laceration of ovary, bilateral, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S37.432S | Laceration of ovary, bilateral, sequela                                   | Diagnosis     | ICD-10-CM |
| S37.439  | Laceration of ovary, unspecified  | Diagnosis     | ICD-10-CM |
| S37.439A | Laceration of ovary, unspecified, initial encounter                       | Diagnosis     | ICD-10-CM |
| S37.439D | Laceration of ovary, unspecified, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S37.439S | Laceration of ovary, unspecified, sequela                                 | Diagnosis     | ICD-10-CM |
| S37.49   | Other injury of ovary   | Diagnosis     | ICD-10-CM |
| S37.491  | Other injury of ovary, unilateral   | Diagnosis     | ICD-10-CM |
| S37.491A | Other injury of ovary, unilateral, initial encounter                      | Diagnosis     | ICD-10-CM |
| S37.491D | Other injury of ovary, unilateral, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S37.491S | Other injury of ovary, unilateral, sequela                                | Diagnosis     | ICD-10-CM |
| S37.492  | Other injury of ovary, bilateral  | Diagnosis     | ICD-10-CM |
| S37.492A | Other injury of ovary, bilateral, initial encounter                       | Diagnosis     | ICD-10-CM |
| S37.492D | Other injury of ovary, bilateral, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S37.492S | Other injury of ovary, bilateral, sequela                                 | Diagnosis     | ICD-10-CM |
| S37.499  | Other injury of ovary, unspecified  | Diagnosis     | ICD-10-CM |
| S37.499A | Other injury of ovary, unspecified, initial encounter                     | Diagnosis     | ICD-10-CM |
| S37.499D | Other injury of ovary, unspecified, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S37.499S | Other injury of ovary, unspecified, sequela                               | Diagnosis     | ICD-10-CM |
| S37.5    | Injury of fallopian tube  | Diagnosis     | ICD-10-CM |
| S37.50   | Unspecified injury of fallopian tube                                      | Diagnosis     | ICD-10-CM |
| S37.501  | Unspecified injury of fallopian tube, unilateral                          | Diagnosis     | ICD-10-CM |
| S37.501A | Unspecified injury of fallopian tube, unilateral, initial encounter       | Diagnosis     | ICD-10-CM |
| S37.501D | Unspecified injury of fallopian tube, unilateral, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S37.501S | Unspecified injury of fallopian tube, unilateral, sequela                 | Diagnosis     | ICD-10-CM |
| S37.502  | Unspecified injury of fallopian tube, bilateral                           | Diagnosis     | ICD-10-CM |
| S37.502A | Unspecified injury of fallopian tube, bilateral, initial encounter        | Diagnosis     | ICD-10-CM |
| S37.502D | Unspecified injury of fallopian tube, bilateral, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S37.502S | Unspecified injury of fallopian tube, bilateral, sequela                  | Diagnosis     | ICD-10-CM |
| S37.509  | Unspecified injury of fallopian tube, unspecified                         | Diagnosis     | ICD-10-CM |
| S37.509A | Unspecified injury of fallopian tube, unspecified, initial encounter      | Diagnosis     | ICD-10-CM |
| S37.509D | Unspecified injury of fallopian tube, unspecified, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S37.509S | Unspecified injury of fallopian tube, unspecified, sequela                | Diagnosis     | ICD-10-CM |
| S37.51   | Primary blast injury of fallopian tube                                    | Diagnosis     | ICD-10-CM |
| S37.511  | Primary blast injury of fallopian tube, unilateral                        | Diagnosis     | ICD-10-CM |
| S37.511A | Primary blast injury of fallopian tube, unilateral, initial encounter     | Diagnosis     | ICD-10-CM |
| S37.511D | Primary blast injury of fallopian tube, unilateral, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S37.511S | Primary blast injury of fallopian tube, unilateral, sequela               | Diagnosis     | ICD-10-CM |
| S37.512  | Primary blast injury of fallopian tube, bilateral                         | Diagnosis     | ICD-10-CM |
| S37.512A | Primary blast injury of fallopian tube, bilateral, initial encounter      | Diagnosis     | ICD-10-CM |
| S37.512D | Primary blast injury of fallopian tube, bilateral, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S37.512S | Primary blast injury of fallopian tube, bilateral, sequela                | Diagnosis     | ICD-10-CM |
| S37.519  | Primary blast injury of fallopian tube, unspecified                       | Diagnosis     | ICD-10-CM |
| S37.519A | Primary blast injury of fallopian tube, unspecified, initial encounter    | Diagnosis     | ICD-10-CM |
| S37.519D | Primary blast injury of fallopian tube, unspecified, subsequent encounter | Diagnosis     | ICD-10-CM |
| S37.519S | Primary blast injury of fallopian tube, unspecified, sequela              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S37.52   | Contusion of fallopian tube                                       | Diagnosis     | ICD-10-CM |
| S37.521  | Contusion of fallopian tube, unilateral                           | Diagnosis     | ICD-10-CM |
| S37.521A | Contusion of fallopian tube, unilateral, initial encounter        | Diagnosis     | ICD-10-CM |
| S37.521D | Contusion of fallopian tube, unilateral, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S37.521S | Contusion of fallopian tube, unilateral, sequela                  | Diagnosis     | ICD-10-CM |
| S37.522  | Contusion of fallopian tube, bilateral                            | Diagnosis     | ICD-10-CM |
| S37.522A | Contusion of fallopian tube, bilateral, initial encounter         | Diagnosis     | ICD-10-CM |
| S37.522D | Contusion of fallopian tube, bilateral, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S37.522S | Contusion of fallopian tube, bilateral, sequela                   | Diagnosis     | ICD-10-CM |
| S37.529  | Contusion of fallopian tube, unspecified                          | Diagnosis     | ICD-10-CM |
| S37.529A | Contusion of fallopian tube, unspecified, initial encounter       | Diagnosis     | ICD-10-CM |
| S37.529D | Contusion of fallopian tube, unspecified, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S37.529S | Contusion of fallopian tube, unspecified, sequela                 | Diagnosis     | ICD-10-CM |
| S37.53   | Laceration of fallopian tube                                      | Diagnosis     | ICD-10-CM |
| S37.531  | Laceration of fallopian tube, unilateral                          | Diagnosis     | ICD-10-CM |
| S37.531A | Laceration of fallopian tube, unilateral, initial encounter       | Diagnosis     | ICD-10-CM |
| S37.531D | Laceration of fallopian tube, unilateral, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S37.531S | Laceration of fallopian tube, unilateral, sequela                 | Diagnosis     | ICD-10-CM |
| S37.532  | Laceration of fallopian tube, bilateral                           | Diagnosis     | ICD-10-CM |
| S37.532A | Laceration of fallopian tube, bilateral, initial encounter        | Diagnosis     | ICD-10-CM |
| S37.532D | Laceration of fallopian tube, bilateral, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S37.532S | Laceration of fallopian tube, bilateral, sequela                  | Diagnosis     | ICD-10-CM |
| S37.539  | Laceration of fallopian tube, unspecified                         | Diagnosis     | ICD-10-CM |
| S37.539A | Laceration of fallopian tube, unspecified, initial encounter      | Diagnosis     | ICD-10-CM |
| S37.539D | Laceration of fallopian tube, unspecified, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S37.539S | Laceration of fallopian tube, unspecified, sequela                | Diagnosis     | ICD-10-CM |
| S37.59   | Other injury of fallopian tube                                    | Diagnosis     | ICD-10-CM |
| S37.591  | Other injury of fallopian tube, unilateral                        | Diagnosis     | ICD-10-CM |
| S37.591A | Other injury of fallopian tube, unilateral, initial encounter     | Diagnosis     | ICD-10-CM |
| S37.591D | Other injury of fallopian tube, unilateral, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S37.591S | Other injury of fallopian tube, unilateral, sequela               | Diagnosis     | ICD-10-CM |
| S37.592  | Other injury of fallopian tube, bilateral                         | Diagnosis     | ICD-10-CM |
| S37.592A | Other injury of fallopian tube, bilateral, initial encounter      | Diagnosis     | ICD-10-CM |
| S37.592D | Other injury of fallopian tube, bilateral, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S37.592S | Other injury of fallopian tube, bilateral, sequela                | Diagnosis     | ICD-10-CM |
| S37.599  | Other injury of fallopian tube, unspecified                       | Diagnosis     | ICD-10-CM |
| S37.599A | Other injury of fallopian tube, unspecified, initial encounter    | Diagnosis     | ICD-10-CM |
| S37.599D | Other injury of fallopian tube, unspecified, subsequent encounter | Diagnosis     | ICD-10-CM |
| S37.599S | Other injury of fallopian tube, unspecified, sequela              | Diagnosis     | ICD-10-CM |
| S37.6    | Injury of uterus  | Diagnosis     | ICD-10-CM |
| S37.60   | Unspecified injury of uterus                                      | Diagnosis     | ICD-10-CM |
| S37.60XA | Unspecified injury of uterus, initial encounter                   | Diagnosis     | ICD-10-CM |
| S37.60XD | Unspecified injury of uterus, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S37.60XS | Unspecified injury of uterus, sequela                             | Diagnosis     | ICD-10-CM |
| S37.62   | Contusion of uterus   | Diagnosis     | ICD-10-CM |
| S37.62XA | Contusion of uterus, initial encounter                            | Diagnosis     | ICD-10-CM |
| S37.62XD | Contusion of uterus, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S37.62XS | Contusion of uterus, sequela                                      | Diagnosis     | ICD-10-CM |
| S37.63   | Laceration of uterus  | Diagnosis     | ICD-10-CM |
| S37.63XA | Laceration of uterus, initial encounter                           | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S37.63XD | Laceration of uterus, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S37.63XS | Laceration of uterus, sequela                                      | Diagnosis     | ICD-10-CM |
| S37.69   | Other injury of uterus   | Diagnosis     | ICD-10-CM |
| S37.69XA | Other injury of uterus, initial encounter                          | Diagnosis     | ICD-10-CM |
| S37.69XD | Other injury of uterus, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S37.69XS | Other injury of uterus, sequela                                    | Diagnosis     | ICD-10-CM |
| S37.8    | Injury of other urinary and pelvic organs                          | Diagnosis     | ICD-10-CM |
| S37.81   | Injury of adrenal gland  | Diagnosis     | ICD-10-CM |
| S37.812  | Contusion of adrenal gland   | Diagnosis     | ICD-10-CM |
| S37.812A | Contusion of adrenal gland, initial encounter                      | Diagnosis     | ICD-10-CM |
| S37.812D | Contusion of adrenal gland, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S37.812S | Contusion of adrenal gland, sequela                                | Diagnosis     | ICD-10-CM |
| S37.813  | Laceration of adrenal gland  | Diagnosis     | ICD-10-CM |
| S37.813A | Laceration of adrenal gland, initial encounter                     | Diagnosis     | ICD-10-CM |
| S37.813D | Laceration of adrenal gland, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S37.813S | Laceration of adrenal gland, sequela                               | Diagnosis     | ICD-10-CM |
| S37.818  | Other injury of adrenal gland                                      | Diagnosis     | ICD-10-CM |
| S37.818A | Other injury of adrenal gland, initial encounter                   | Diagnosis     | ICD-10-CM |
| S37.818D | Other injury of adrenal gland, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S37.818S | Other injury of adrenal gland, sequela                             | Diagnosis     | ICD-10-CM |
| S37.819  | Unspecified injury of adrenal gland                                | Diagnosis     | ICD-10-CM |
| S37.819A | Unspecified injury of adrenal gland, initial encounter             | Diagnosis     | ICD-10-CM |
| S37.819D | Unspecified injury of adrenal gland, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S37.819S | Unspecified injury of adrenal gland, sequela                       | Diagnosis     | ICD-10-CM |
| S37.82   | Injury of prostate   | Diagnosis     | ICD-10-CM |
| S37.822  | Contusion of prostate  | Diagnosis     | ICD-10-CM |
| S37.822A | Contusion of prostate, initial encounter                           | Diagnosis     | ICD-10-CM |
| S37.822D | Contusion of prostate, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S37.822S | Contusion of prostate, sequela                                     | Diagnosis     | ICD-10-CM |
| S37.823  | Laceration of prostate   | Diagnosis     | ICD-10-CM |
| S37.823A | Laceration of prostate, initial encounter                          | Diagnosis     | ICD-10-CM |
| S37.823D | Laceration of prostate, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S37.823S | Laceration of prostate, sequela                                    | Diagnosis     | ICD-10-CM |
| S37.828  | Other injury of prostate   | Diagnosis     | ICD-10-CM |
| S37.828A | Other injury of prostate, initial encounter                        | Diagnosis     | ICD-10-CM |
| S37.828D | Other injury of prostate, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S37.828S | Other injury of prostate, sequela                                  | Diagnosis     | ICD-10-CM |
| S37.829  | Unspecified injury of prostate                                     | Diagnosis     | ICD-10-CM |
| S37.829A | Unspecified injury of prostate, initial encounter                  | Diagnosis     | ICD-10-CM |
| S37.829D | Unspecified injury of prostate, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S37.829S | Unspecified injury of prostate, sequela                            | Diagnosis     | ICD-10-CM |
| S37.89   | Injury of other urinary and pelvic organ                           | Diagnosis     | ICD-10-CM |
| S37.892  | Contusion of other urinary and pelvic organ                        | Diagnosis     | ICD-10-CM |
| S37.892A | Contusion of other urinary and pelvic organ, initial encounter     | Diagnosis     | ICD-10-CM |
| S37.892D | Contusion of other urinary and pelvic organ, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S37.892S | Contusion of other urinary and pelvic organ, sequela               | Diagnosis     | ICD-10-CM |
| S37.893  | Laceration of other urinary and pelvic organ                       | Diagnosis     | ICD-10-CM |
| S37.893A | Laceration of other urinary and pelvic organ, initial encounter    | Diagnosis     | ICD-10-CM |
| S37.893D | Laceration of other urinary and pelvic organ, subsequent encounter | Diagnosis     | ICD-10-CM |
| S37.893S | Laceration of other urinary and pelvic organ, sequela              | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S37.898  | Other injury of other urinary and pelvic organ  | Diagnosis     | ICD-10-CM |
| S37.898A | Other injury of other urinary and pelvic organ, initial encounter                             | Diagnosis     | ICD-10-CM |
| S37.898D | Other injury of other urinary and pelvic organ, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S37.898S | Other injury of other urinary and pelvic organ, sequela                                       | Diagnosis     | ICD-10-CM |
| S37.899  | Unspecified injury of other urinary and pelvic organ  | Diagnosis     | ICD-10-CM |
| S37.899A | Unspecified injury of other urinary and pelvic organ, initial encounter                       | Diagnosis     | ICD-10-CM |
| S37.899D | Unspecified injury of other urinary and pelvic organ, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S37.899S | Unspecified injury of other urinary and pelvic organ, sequela                                 | Diagnosis     | ICD-10-CM |
| S37.9    | Injury of unspecified urinary and pelvic organ  | Diagnosis     | ICD-10-CM |
| S37.90   | Unspecified injury of unspecified urinary and pelvic organ                                    | Diagnosis     | ICD-10-CM |
| S37.90XA | Unspecified injury of unspecified urinary and pelvic organ, initial encounter                 | Diagnosis     | ICD-10-CM |
| S37.90XD | Unspecified injury of unspecified urinary and pelvic organ, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S37.90XS | Unspecified injury of unspecified urinary and pelvic organ, sequela                           | Diagnosis     | ICD-10-CM |
| S37.92   | Contusion of unspecified urinary and pelvic organ   | Diagnosis     | ICD-10-CM |
| S37.92XA | Contusion of unspecified urinary and pelvic organ, initial encounter                          | Diagnosis     | ICD-10-CM |
| S37.92XD | Contusion of unspecified urinary and pelvic organ, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S37.92XS | Contusion of unspecified urinary and pelvic organ, sequela                                    | Diagnosis     | ICD-10-CM |
| S37.93   | Laceration of unspecified urinary and pelvic organ  | Diagnosis     | ICD-10-CM |
| S37.93XA | Laceration of unspecified urinary and pelvic organ, initial encounter                         | Diagnosis     | ICD-10-CM |
| S37.93XD | Laceration of unspecified urinary and pelvic organ, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S37.93XS | Laceration of unspecified urinary and pelvic organ, sequela                                   | Diagnosis     | ICD-10-CM |
| S37.99   | Other injury of unspecified urinary and pelvic organ  | Diagnosis     | ICD-10-CM |
| S37.99XA | Other injury of unspecified urinary and pelvic organ, initial encounter                       | Diagnosis     | ICD-10-CM |
| S37.99XD | Other injury of unspecified urinary and pelvic organ, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S37.99XS | Other injury of unspecified urinary and pelvic organ, sequela                                 | Diagnosis     | ICD-10-CM |
| S38      | Crushing injury and traumatic amputation of abdomen, lower back, pelvis and external genitals | Diagnosis     | ICD-10-CM |
| S38.0    | Crushing injury of external genital organs  | Diagnosis     | ICD-10-CM |
| S38.00   | Crushing injury of unspecified external genital organs  | Diagnosis     | ICD-10-CM |
| S38.001  | Crushing injury of unspecified external genital organs, male                                  | Diagnosis     | ICD-10-CM |
| S38.001A | Crushing injury of unspecified external genital organs, male, initial encounter               | Diagnosis     | ICD-10-CM |
| S38.001D | Crushing injury of unspecified external genital organs, male, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S38.001S | Crushing injury of unspecified external genital organs, male, sequela                         | Diagnosis     | ICD-10-CM |
| S38.002  | Crushing injury of unspecified external genital organs, female                                | Diagnosis     | ICD-10-CM |
| S38.002A | Crushing injury of unspecified external genital organs, female, initial encounter             | Diagnosis     | ICD-10-CM |
| S38.002D | Crushing injury of unspecified external genital organs, female, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S38.002S | Crushing injury of unspecified external genital organs, female, sequela                       | Diagnosis     | ICD-10-CM |
| S38.01   | Crushing injury of penis  | Diagnosis     | ICD-10-CM |
| S38.01XA | Crushing injury of penis, initial encounter   | Diagnosis     | ICD-10-CM |
| S38.01XD | Crushing injury of penis, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S38.01XS | Crushing injury of penis, sequela   | Diagnosis     | ICD-10-CM |
| S38.02   | Crushing injury of scrotum and testis   | Diagnosis     | ICD-10-CM |
| S38.02XA | Crushing injury of scrotum and testis, initial encounter                                      | Diagnosis     | ICD-10-CM |
| S38.02XD | Crushing injury of scrotum and testis, subsequent encounter                                   | Diagnosis     | ICD-10-CM |
| S38.02XS | Crushing injury of scrotum and testis, sequela  | Diagnosis     | ICD-10-CM |
| S38.03   | Crushing injury of vulva  | Diagnosis     | ICD-10-CM |
| S38.03XA | Crushing injury of vulva, initial encounter   | Diagnosis     | ICD-10-CM |
| S38.03XD | Crushing injury of vulva, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S38.03XS | Crushing injury of vulva, sequela   | Diagnosis     | ICD-10-CM |
| S38.1    | Crushing injury of abdomen, lower back, and pelvis  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S38.1XXA | Crushing injury of abdomen, lower back, and pelvis, initial encounter                 | Diagnosis     | ICD-10-CM |
| S38.1XXD | Crushing injury of abdomen, lower back, and pelvis, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S38.1XXS | Crushing injury of abdomen, lower back, and pelvis, sequela                           | Diagnosis     | ICD-10-CM |
| S38.2    | Traumatic amputation of external genital organs                                       | Diagnosis     | ICD-10-CM |
| S38.21   | Traumatic amputation of female external genital organs                                | Diagnosis     | ICD-10-CM |
| S38.211  | Complete traumatic amputation of female external genital organs                       | Diagnosis     | ICD-10-CM |
| S38.211A | Complete traumatic amputation of female external genital organs, initial encounter    | Diagnosis     | ICD-10-CM |
| S38.211D | Complete traumatic amputation of female external genital organs, subsequent encounter | Diagnosis     | ICD-10-CM |
| S38.211S | Complete traumatic amputation of female external genital organs, sequela              | Diagnosis     | ICD-10-CM |
| S38.212  | Partial traumatic amputation of female external genital organs                        | Diagnosis     | ICD-10-CM |
| S38.212A | Partial traumatic amputation of female external genital organs, initial encounter     | Diagnosis     | ICD-10-CM |
| S38.212D | Partial traumatic amputation of female external genital organs, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S38.212S | Partial traumatic amputation of female external genital organs, sequela               | Diagnosis     | ICD-10-CM |
| S38.22   | Traumatic amputation of penis   | Diagnosis     | ICD-10-CM |
| S38.221  | Complete traumatic amputation of penis  | Diagnosis     | ICD-10-CM |
| S38.221A | Complete traumatic amputation of penis, initial encounter                             | Diagnosis     | ICD-10-CM |
| S38.221D | Complete traumatic amputation of penis, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S38.221S | Complete traumatic amputation of penis, sequela                                       | Diagnosis     | ICD-10-CM |
| S38.222  | Partial traumatic amputation of penis   | Diagnosis     | ICD-10-CM |
| S38.222A | Partial traumatic amputation of penis, initial encounter                              | Diagnosis     | ICD-10-CM |
| S38.222D | Partial traumatic amputation of penis, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S38.222S | Partial traumatic amputation of penis, sequela  | Diagnosis     | ICD-10-CM |
| S38.23   | Traumatic amputation of scrotum and testis  | Diagnosis     | ICD-10-CM |
| S38.231  | Complete traumatic amputation of scrotum and testis                                   | Diagnosis     | ICD-10-CM |
| S38.231A | Complete traumatic amputation of scrotum and testis, initial encounter                | Diagnosis     | ICD-10-CM |
| S38.231D | Complete traumatic amputation of scrotum and testis, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S38.231S | Complete traumatic amputation of scrotum and testis, sequela                          | Diagnosis     | ICD-10-CM |
| S38.232  | Partial traumatic amputation of scrotum and testis                                    | Diagnosis     | ICD-10-CM |
| S38.232A | Partial traumatic amputation of scrotum and testis, initial encounter                 | Diagnosis     | ICD-10-CM |
| S38.232D | Partial traumatic amputation of scrotum and testis, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S38.232S | Partial traumatic amputation of scrotum and testis, sequela                           | Diagnosis     | ICD-10-CM |
| S38.3    | Transection (partial) of abdomen  | Diagnosis     | ICD-10-CM |
| S38.3XXA | Transection (partial) of abdomen, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S38.3XXD | Transection (partial) of abdomen, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S38.3XXS | Transection (partial) of abdomen, sequela   | Diagnosis     | ICD-10-CM |
| S39      | Other and unspecified injuries of abdomen, lower back, pelvis and external genitals   | Diagnosis     | ICD-10-CM |
| S39.0    | Injury of muscle, fascia and tendon of abdomen, lower back and pelvis                 | Diagnosis     | ICD-10-CM |
| S39.00   | Unspecified injury of muscle, fascia and tendon of abdomen, lower back and pelvis     | Diagnosis     | ICD-10-CM |
| S39.001  | Unspecified injury of muscle, fascia and tendon of abdomen                            | Diagnosis     | ICD-10-CM |
| S39.001A | Unspecified injury of muscle, fascia and tendon of abdomen, initial encounter         | Diagnosis     | ICD-10-CM |
| S39.001D | Unspecified injury of muscle, fascia and tendon of abdomen, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S39.001S | Unspecified injury of muscle, fascia and tendon of abdomen, sequela                   | Diagnosis     | ICD-10-CM |
| S39.002  | Unspecified injury of muscle, fascia and tendon of lower back                         | Diagnosis     | ICD-10-CM |
| S39.002A | Unspecified injury of muscle, fascia and tendon of lower back, initial encounter      | Diagnosis     | ICD-10-CM |
| S39.002D | Unspecified injury of muscle, fascia and tendon of lower back, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S39.002S | Unspecified injury of muscle, fascia and tendon of lower back, sequela                | Diagnosis     | ICD-10-CM |
| S39.003  | Unspecified injury of muscle, fascia and tendon of pelvis                             | Diagnosis     | ICD-10-CM |
| S39.003A | Unspecified injury of muscle, fascia and tendon of pelvis, initial encounter          | Diagnosis     | ICD-10-CM |
| S39.003D | Unspecified injury of muscle, fascia and tendon of pelvis, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S39.003S | Unspecified injury of muscle, fascia and tendon of pelvis, sequela                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S39.01   | Strain of muscle, fascia and tendon of abdomen, lower back and pelvis         | Diagnosis     | ICD-10-CM |
| S39.011  | Strain of muscle, fascia and tendon of abdomen                                | Diagnosis     | ICD-10-CM |
| S39.011A | Strain of muscle, fascia and tendon of abdomen, initial encounter             | Diagnosis     | ICD-10-CM |
| S39.011D | Strain of muscle, fascia and tendon of abdomen, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S39.011S | Strain of muscle, fascia and tendon of abdomen, sequela                       | Diagnosis     | ICD-10-CM |
| S39.012  | Strain of muscle, fascia and tendon of lower back                             | Diagnosis     | ICD-10-CM |
| S39.012A | Strain of muscle, fascia and tendon of lower back, initial encounter          | Diagnosis     | ICD-10-CM |
| S39.012D | Strain of muscle, fascia and tendon of lower back, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S39.012S | Strain of muscle, fascia and tendon of lower back, sequela                    | Diagnosis     | ICD-10-CM |
| S39.013  | Strain of muscle, fascia and tendon of pelvis                                 | Diagnosis     | ICD-10-CM |
| S39.013A | Strain of muscle, fascia and tendon of pelvis, initial encounter              | Diagnosis     | ICD-10-CM |
| S39.013D | Strain of muscle, fascia and tendon of pelvis, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S39.013S | Strain of muscle, fascia and tendon of pelvis, sequela                        | Diagnosis     | ICD-10-CM |
| S39.02   | Laceration of muscle, fascia and tendon of abdomen, lower back and pelvis     | Diagnosis     | ICD-10-CM |
| S39.021  | Laceration of muscle, fascia and tendon of abdomen                            | Diagnosis     | ICD-10-CM |
| S39.021A | Laceration of muscle, fascia and tendon of abdomen, initial encounter         | Diagnosis     | ICD-10-CM |
| S39.021D | Laceration of muscle, fascia and tendon of abdomen, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S39.021S | Laceration of muscle, fascia and tendon of abdomen, sequela                   | Diagnosis     | ICD-10-CM |
| S39.022  | Laceration of muscle, fascia and tendon of lower back                         | Diagnosis     | ICD-10-CM |
| S39.022A | Laceration of muscle, fascia and tendon of lower back, initial encounter      | Diagnosis     | ICD-10-CM |
| S39.022D | Laceration of muscle, fascia and tendon of lower back, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S39.022S | Laceration of muscle, fascia and tendon of lower back, sequela                | Diagnosis     | ICD-10-CM |
| S39.023  | Laceration of muscle, fascia and tendon of pelvis                             | Diagnosis     | ICD-10-CM |
| S39.023A | Laceration of muscle, fascia and tendon of pelvis, initial encounter          | Diagnosis     | ICD-10-CM |
| S39.023D | Laceration of muscle, fascia and tendon of pelvis, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S39.023S | Laceration of muscle, fascia and tendon of pelvis, sequela                    | Diagnosis     | ICD-10-CM |
| S39.09   | Other injury of muscle, fascia and tendon of abdomen, lower back and pelvis   | Diagnosis     | ICD-10-CM |
| S39.091  | Other injury of muscle, fascia and tendon of abdomen                          | Diagnosis     | ICD-10-CM |
| S39.091A | Other injury of muscle, fascia and tendon of abdomen, initial encounter       | Diagnosis     | ICD-10-CM |
| S39.091D | Other injury of muscle, fascia and tendon of abdomen, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S39.091S | Other injury of muscle, fascia and tendon of abdomen, sequela                 | Diagnosis     | ICD-10-CM |
| S39.092  | Other injury of muscle, fascia and tendon of lower back                       | Diagnosis     | ICD-10-CM |
| S39.092A | Other injury of muscle, fascia and tendon of lower back, initial encounter    | Diagnosis     | ICD-10-CM |
| S39.092D | Other injury of muscle, fascia and tendon of lower back, subsequent encounter | Diagnosis     | ICD-10-CM |
| S39.092S | Other injury of muscle, fascia and tendon of lower back, sequela              | Diagnosis     | ICD-10-CM |
| S39.093  | Other injury of muscle, fascia and tendon of pelvis                           | Diagnosis     | ICD-10-CM |
| S39.093A | Other injury of muscle, fascia and tendon of pelvis, initial encounter        | Diagnosis     | ICD-10-CM |
| S39.093D | Other injury of muscle, fascia and tendon of pelvis, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S39.093S | Other injury of muscle, fascia and tendon of pelvis, sequela                  | Diagnosis     | ICD-10-CM |
| S39.8    | Other specified injuries of abdomen, lower back, pelvis and external genitals | Diagnosis     | ICD-10-CM |
| S39.81   | Other specified injuries of abdomen   | Diagnosis     | ICD-10-CM |
| S39.81XA | Other specified injuries of abdomen, initial encounter                        | Diagnosis     | ICD-10-CM |
| S39.81XD | Other specified injuries of abdomen, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S39.81XS | Other specified injuries of abdomen, sequela                                  | Diagnosis     | ICD-10-CM |
| S39.82   | Other specified injuries of lower back  | Diagnosis     | ICD-10-CM |
| S39.82XA | Other specified injuries of lower back, initial encounter                     | Diagnosis     | ICD-10-CM |
| S39.82XD | Other specified injuries of lower back, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S39.82XS | Other specified injuries of lower back, sequela                               | Diagnosis     | ICD-10-CM |
| S39.83   | Other specified injuries of pelvis  | Diagnosis     | ICD-10-CM |
| S39.83XA | Other specified injuries of pelvis, initial encounter                         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S39.83XD | Other specified injuries of pelvis, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S39.83XS | Other specified injuries of pelvis, sequela                             | Diagnosis     | ICD-10-CM |
| S39.84   | Other specified injuries of external genitals                           | Diagnosis     | ICD-10-CM |
| S39.840  | Fracture of corpus cavernosum penis                                     | Diagnosis     | ICD-10-CM |
| S39.840A | Fracture of corpus cavernosum penis, initial encounter                  | Diagnosis     | ICD-10-CM |
| S39.840D | Fracture of corpus cavernosum penis, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S39.840S | Fracture of corpus cavernosum penis, sequela                            | Diagnosis     | ICD-10-CM |
| S39.848  | Other specified injuries of external genitals                           | Diagnosis     | ICD-10-CM |
| S39.848A | Other specified injuries of external genitals, initial encounter        | Diagnosis     | ICD-10-CM |
| S39.848D | Other specified injuries of external genitals, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S39.848S | Other specified injuries of external genitals, sequela                  | Diagnosis     | ICD-10-CM |
| S39.9    | Unspecified injury of abdomen, lower back, pelvis and external genitals | Diagnosis     | ICD-10-CM |
| S39.91   | Unspecified injury of abdomen   | Diagnosis     | ICD-10-CM |
| S39.91XA | Unspecified injury of abdomen, initial encounter                        | Diagnosis     | ICD-10-CM |
| S39.91XD | Unspecified injury of abdomen, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S39.91XS | Unspecified injury of abdomen, sequela                                  | Diagnosis     | ICD-10-CM |
| S39.92   | Unspecified injury of lower back  | Diagnosis     | ICD-10-CM |
| S39.92XA | Unspecified injury of lower back, initial encounter                     | Diagnosis     | ICD-10-CM |
| S39.92XD | Unspecified injury of lower back, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S39.92XS | Unspecified injury of lower back, sequela                               | Diagnosis     | ICD-10-CM |
| S39.93   | Unspecified injury of pelvis  | Diagnosis     | ICD-10-CM |
| S39.93XA | Unspecified injury of pelvis, initial encounter                         | Diagnosis     | ICD-10-CM |
| S39.93XD | Unspecified injury of pelvis, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S39.93XS | Unspecified injury of pelvis, sequela                                   | Diagnosis     | ICD-10-CM |
| S39.94   | Unspecified injury of external genitals                                 | Diagnosis     | ICD-10-CM |
| S39.94XA | Unspecified injury of external genitals, initial encounter              | Diagnosis     | ICD-10-CM |
| S39.94XD | Unspecified injury of external genitals, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S39.94XS | Unspecified injury of external genitals, sequela                        | Diagnosis     | ICD-10-CM |
| S40      | Superficial injury of shoulder and upper arm                            | Diagnosis     | ICD-10-CM |
| S40.0    | Contusion of shoulder and upper arm                                     | Diagnosis     | ICD-10-CM |
| S40.01   | Contusion of shoulder   | Diagnosis     | ICD-10-CM |
| S40.011  | Contusion of right shoulder   | Diagnosis     | ICD-10-CM |
| S40.011A | Contusion of right shoulder, initial encounter                          | Diagnosis     | ICD-10-CM |
| S40.011D | Contusion of right shoulder, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S40.011S | Contusion of right shoulder, sequela                                    | Diagnosis     | ICD-10-CM |
| S40.012  | Contusion of left shoulder  | Diagnosis     | ICD-10-CM |
| S40.012A | Contusion of left shoulder, initial encounter                           | Diagnosis     | ICD-10-CM |
| S40.012D | Contusion of left shoulder, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S40.012S | Contusion of left shoulder, sequela                                     | Diagnosis     | ICD-10-CM |
| S40.019  | Contusion of unspecified shoulder                                       | Diagnosis     | ICD-10-CM |
| S40.019A | Contusion of unspecified shoulder, initial encounter                    | Diagnosis     | ICD-10-CM |
| S40.019D | Contusion of unspecified shoulder, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S40.019S | Contusion of unspecified shoulder, sequela                              | Diagnosis     | ICD-10-CM |
| S40.02   | Contusion of upper arm  | Diagnosis     | ICD-10-CM |
| S40.021  | Contusion of right upper arm  | Diagnosis     | ICD-10-CM |
| S40.021A | Contusion of right upper arm, initial encounter                         | Diagnosis     | ICD-10-CM |
| S40.021D | Contusion of right upper arm, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S40.021S | Contusion of right upper arm, sequela                                   | Diagnosis     | ICD-10-CM |
| S40.022  | Contusion of left upper arm   | Diagnosis     | ICD-10-CM |
| S40.022A | Contusion of left upper arm, initial encounter                          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S40.022D | Contusion of left upper arm, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S40.022S | Contusion of left upper arm, sequela                                | Diagnosis     | ICD-10-CM |
| S40.029  | Contusion of unspecified upper arm                                  | Diagnosis     | ICD-10-CM |
| S40.029A | Contusion of unspecified upper arm, initial encounter               | Diagnosis     | ICD-10-CM |
| S40.029D | Contusion of unspecified upper arm, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S40.029S | Contusion of unspecified upper arm, sequela                         | Diagnosis     | ICD-10-CM |
| S40.2    | Other superficial injuries of shoulder                              | Diagnosis     | ICD-10-CM |
| S40.21   | Abrasion of shoulder  | Diagnosis     | ICD-10-CM |
| S40.211  | Abrasion of right shoulder  | Diagnosis     | ICD-10-CM |
| S40.211A | Abrasion of right shoulder, initial encounter                       | Diagnosis     | ICD-10-CM |
| S40.211D | Abrasion of right shoulder, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S40.211S | Abrasion of right shoulder, sequela                                 | Diagnosis     | ICD-10-CM |
| S40.212  | Abrasion of left shoulder   | Diagnosis     | ICD-10-CM |
| S40.212A | Abrasion of left shoulder, initial encounter                        | Diagnosis     | ICD-10-CM |
| S40.212D | Abrasion of left shoulder, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S40.212S | Abrasion of left shoulder, sequela                                  | Diagnosis     | ICD-10-CM |
| S40.219  | Abrasion of unspecified shoulder                                    | Diagnosis     | ICD-10-CM |
| S40.219A | Abrasion of unspecified shoulder, initial encounter                 | Diagnosis     | ICD-10-CM |
| S40.219D | Abrasion of unspecified shoulder, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S40.219S | Abrasion of unspecified shoulder, sequela                           | Diagnosis     | ICD-10-CM |
| S40.22   | Blister (nonthermal) of shoulder                                    | Diagnosis     | ICD-10-CM |
| S40.221  | Blister (nonthermal) of right shoulder                              | Diagnosis     | ICD-10-CM |
| S40.221A | Blister (nonthermal) of right shoulder, initial encounter           | Diagnosis     | ICD-10-CM |
| S40.221D | Blister (nonthermal) of right shoulder, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S40.221S | Blister (nonthermal) of right shoulder, sequela                     | Diagnosis     | ICD-10-CM |
| S40.222  | Blister (nonthermal) of left shoulder                               | Diagnosis     | ICD-10-CM |
| S40.222A | Blister (nonthermal) of left shoulder, initial encounter            | Diagnosis     | ICD-10-CM |
| S40.222D | Blister (nonthermal) of left shoulder, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S40.222S | Blister (nonthermal) of left shoulder, sequela                      | Diagnosis     | ICD-10-CM |
| S40.229  | Blister (nonthermal) of unspecified shoulder                        | Diagnosis     | ICD-10-CM |
| S40.229A | Blister (nonthermal) of unspecified shoulder, initial encounter     | Diagnosis     | ICD-10-CM |
| S40.229D | Blister (nonthermal) of unspecified shoulder, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S40.229S | Blister (nonthermal) of unspecified shoulder, sequela               | Diagnosis     | ICD-10-CM |
| S40.24   | External constriction of shoulder                                   | Diagnosis     | ICD-10-CM |
| S40.241  | External constriction of right shoulder                             | Diagnosis     | ICD-10-CM |
| S40.241A | External constriction of right shoulder, initial encounter          | Diagnosis     | ICD-10-CM |
| S40.241D | External constriction of right shoulder, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S40.241S | External constriction of right shoulder, sequela                    | Diagnosis     | ICD-10-CM |
| S40.242  | External constriction of left shoulder                              | Diagnosis     | ICD-10-CM |
| S40.242A | External constriction of left shoulder, initial encounter           | Diagnosis     | ICD-10-CM |
| S40.242D | External constriction of left shoulder, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S40.242S | External constriction of left shoulder, sequela                     | Diagnosis     | ICD-10-CM |
| S40.249  | External constriction of unspecified shoulder                       | Diagnosis     | ICD-10-CM |
| S40.249A | External constriction of unspecified shoulder, initial encounter    | Diagnosis     | ICD-10-CM |
| S40.249D | External constriction of unspecified shoulder, subsequent encounter | Diagnosis     | ICD-10-CM |
| S40.249S | External constriction of unspecified shoulder, sequela              | Diagnosis     | ICD-10-CM |
| S40.25   | Superficial foreign body of shoulder                                | Diagnosis     | ICD-10-CM |
| S40.251  | Superficial foreign body of right shoulder                          | Diagnosis     | ICD-10-CM |
| S40.251A | Superficial foreign body of right shoulder, initial encounter       | Diagnosis     | ICD-10-CM |
| S40.251D | Superficial foreign body of right shoulder, subsequent encounter    | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S40.251S | Superficial foreign body of right shoulder, sequela                     | Diagnosis     | ICD-10-CM |
| S40.252  | Superficial foreign body of left shoulder                               | Diagnosis     | ICD-10-CM |
| S40.252A | Superficial foreign body of left shoulder, initial encounter            | Diagnosis     | ICD-10-CM |
| S40.252D | Superficial foreign body of left shoulder, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S40.252S | Superficial foreign body of left shoulder, sequela                      | Diagnosis     | ICD-10-CM |
| S40.259  | Superficial foreign body of unspecified shoulder                        | Diagnosis     | ICD-10-CM |
| S40.259A | Superficial foreign body of unspecified shoulder, initial encounter     | Diagnosis     | ICD-10-CM |
| S40.259D | Superficial foreign body of unspecified shoulder, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S40.259S | Superficial foreign body of unspecified shoulder, sequela               | Diagnosis     | ICD-10-CM |
| S40.26   | Insect bite (nonvenomous) of shoulder                                   | Diagnosis     | ICD-10-CM |
| S40.261  | Insect bite (nonvenomous) of right shoulder                             | Diagnosis     | ICD-10-CM |
| S40.261A | Insect bite (nonvenomous) of right shoulder, initial encounter          | Diagnosis     | ICD-10-CM |
| S40.261D | Insect bite (nonvenomous) of right shoulder, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S40.261S | Insect bite (nonvenomous) of right shoulder, sequela                    | Diagnosis     | ICD-10-CM |
| S40.262  | Insect bite (nonvenomous) of left shoulder                              | Diagnosis     | ICD-10-CM |
| S40.262A | Insect bite (nonvenomous) of left shoulder, initial encounter           | Diagnosis     | ICD-10-CM |
| S40.262D | Insect bite (nonvenomous) of left shoulder, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S40.262S | Insect bite (nonvenomous) of left shoulder, sequela                     | Diagnosis     | ICD-10-CM |
| S40.269  | Insect bite (nonvenomous) of unspecified shoulder                       | Diagnosis     | ICD-10-CM |
| S40.269A | Insect bite (nonvenomous) of unspecified shoulder, initial encounter    | Diagnosis     | ICD-10-CM |
| S40.269D | Insect bite (nonvenomous) of unspecified shoulder, subsequent encounter | Diagnosis     | ICD-10-CM |
| S40.269S | Insect bite (nonvenomous) of unspecified shoulder, sequela              | Diagnosis     | ICD-10-CM |
| S40.27   | Other superficial bite of shoulder                                      | Diagnosis     | ICD-10-CM |
| S40.271  | Other superficial bite of right shoulder                                | Diagnosis     | ICD-10-CM |
| S40.271A | Other superficial bite of right shoulder, initial encounter             | Diagnosis     | ICD-10-CM |
| S40.271D | Other superficial bite of right shoulder, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S40.271S | Other superficial bite of right shoulder, sequela                       | Diagnosis     | ICD-10-CM |
| S40.272  | Other superficial bite of left shoulder                                 | Diagnosis     | ICD-10-CM |
| S40.272A | Other superficial bite of left shoulder, initial encounter              | Diagnosis     | ICD-10-CM |
| S40.272D | Other superficial bite of left shoulder, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S40.272S | Other superficial bite of left shoulder, sequela                        | Diagnosis     | ICD-10-CM |
| S40.279  | Other superficial bite of unspecified shoulder                          | Diagnosis     | ICD-10-CM |
| S40.279A | Other superficial bite of unspecified shoulder, initial encounter       | Diagnosis     | ICD-10-CM |
| S40.279D | Other superficial bite of unspecified shoulder, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S40.279S | Other superficial bite of unspecified shoulder, sequela                 | Diagnosis     | ICD-10-CM |
| S40.8    | Other superficial injuries of upper arm                                 | Diagnosis     | ICD-10-CM |
| S40.81   | Abrasion of upper arm   | Diagnosis     | ICD-10-CM |
| S40.811  | Abrasion of right upper arm   | Diagnosis     | ICD-10-CM |
| S40.811A | Abrasion of right upper arm, initial encounter                          | Diagnosis     | ICD-10-CM |
| S40.811D | Abrasion of right upper arm, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S40.811S | Abrasion of right upper arm, sequela                                    | Diagnosis     | ICD-10-CM |
| S40.812  | Abrasion of left upper arm  | Diagnosis     | ICD-10-CM |
| S40.812A | Abrasion of left upper arm, initial encounter                           | Diagnosis     | ICD-10-CM |
| S40.812D | Abrasion of left upper arm, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S40.812S | Abrasion of left upper arm, sequela                                     | Diagnosis     | ICD-10-CM |
| S40.819  | Abrasion of unspecified upper arm                                       | Diagnosis     | ICD-10-CM |
| S40.819A | Abrasion of unspecified upper arm, initial encounter                    | Diagnosis     | ICD-10-CM |
| S40.819D | Abrasion of unspecified upper arm, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S40.819S | Abrasion of unspecified upper arm, sequela                              | Diagnosis     | ICD-10-CM |
| S40.82   | Blister (nonthermal) of upper arm                                       | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S40.821  | Blister (nonthermal) of right upper arm                                  | Diagnosis     | ICD-10-CM |
| S40.821A | Blister (nonthermal) of right upper arm, initial encounter               | Diagnosis     | ICD-10-CM |
| S40.821D | Blister (nonthermal) of right upper arm, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S40.821S | Blister (nonthermal) of right upper arm, sequela                         | Diagnosis     | ICD-10-CM |
| S40.822  | Blister (nonthermal) of left upper arm                                   | Diagnosis     | ICD-10-CM |
| S40.822A | Blister (nonthermal) of left upper arm, initial encounter                | Diagnosis     | ICD-10-CM |
| S40.822D | Blister (nonthermal) of left upper arm, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S40.822S | Blister (nonthermal) of left upper arm, sequela                          | Diagnosis     | ICD-10-CM |
| S40.829  | Blister (nonthermal) of unspecified upper arm                            | Diagnosis     | ICD-10-CM |
| S40.829A | Blister (nonthermal) of unspecified upper arm, initial encounter         | Diagnosis     | ICD-10-CM |
| S40.829D | Blister (nonthermal) of unspecified upper arm, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S40.829S | Blister (nonthermal) of unspecified upper arm, sequela                   | Diagnosis     | ICD-10-CM |
| S40.84   | External constriction of upper arm                                       | Diagnosis     | ICD-10-CM |
| S40.841  | External constriction of right upper arm                                 | Diagnosis     | ICD-10-CM |
| S40.841A | External constriction of right upper arm, initial encounter              | Diagnosis     | ICD-10-CM |
| S40.841D | External constriction of right upper arm, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S40.841S | External constriction of right upper arm, sequela                        | Diagnosis     | ICD-10-CM |
| S40.842  | External constriction of left upper arm                                  | Diagnosis     | ICD-10-CM |
| S40.842A | External constriction of left upper arm, initial encounter               | Diagnosis     | ICD-10-CM |
| S40.842D | External constriction of left upper arm, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S40.842S | External constriction of left upper arm, sequela                         | Diagnosis     | ICD-10-CM |
| S40.849  | External constriction of unspecified upper arm                           | Diagnosis     | ICD-10-CM |
| S40.849A | External constriction of unspecified upper arm, initial encounter        | Diagnosis     | ICD-10-CM |
| S40.849D | External constriction of unspecified upper arm, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S40.849S | External constriction of unspecified upper arm, sequela                  | Diagnosis     | ICD-10-CM |
| S40.85   | Superficial foreign body of upper arm                                    | Diagnosis     | ICD-10-CM |
| S40.851  | Superficial foreign body of right upper arm                              | Diagnosis     | ICD-10-CM |
| S40.851A | Superficial foreign body of right upper arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S40.851D | Superficial foreign body of right upper arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S40.851S | Superficial foreign body of right upper arm, sequela                     | Diagnosis     | ICD-10-CM |
| S40.852  | Superficial foreign body of left upper arm                               | Diagnosis     | ICD-10-CM |
| S40.852A | Superficial foreign body of left upper arm, initial encounter            | Diagnosis     | ICD-10-CM |
| S40.852D | Superficial foreign body of left upper arm, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S40.852S | Superficial foreign body of left upper arm, sequela                      | Diagnosis     | ICD-10-CM |
| S40.859  | Superficial foreign body of unspecified upper arm                        | Diagnosis     | ICD-10-CM |
| S40.859A | Superficial foreign body of unspecified upper arm, initial encounter     | Diagnosis     | ICD-10-CM |
| S40.859D | Superficial foreign body of unspecified upper arm, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S40.859S | Superficial foreign body of unspecified upper arm, sequela               | Diagnosis     | ICD-10-CM |
| S40.86   | Insect bite (nonvenomous) of upper arm                                   | Diagnosis     | ICD-10-CM |
| S40.861  | Insect bite (nonvenomous) of right upper arm                             | Diagnosis     | ICD-10-CM |
| S40.861A | Insect bite (nonvenomous) of right upper arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S40.861D | Insect bite (nonvenomous) of right upper arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S40.861S | Insect bite (nonvenomous) of right upper arm, sequela                    | Diagnosis     | ICD-10-CM |
| S40.862  | Insect bite (nonvenomous) of left upper arm                              | Diagnosis     | ICD-10-CM |
| S40.862A | Insect bite (nonvenomous) of left upper arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S40.862D | Insect bite (nonvenomous) of left upper arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S40.862S | Insect bite (nonvenomous) of left upper arm, sequela                     | Diagnosis     | ICD-10-CM |
| S40.869  | Insect bite (nonvenomous) of unspecified upper arm                       | Diagnosis     | ICD-10-CM |
| S40.869A | Insect bite (nonvenomous) of unspecified upper arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S40.869D | Insect bite (nonvenomous) of unspecified upper arm, subsequent encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S40.869S | Insect bite (nonvenomous) of unspecified upper arm, sequela                   | Diagnosis     | ICD-10-CM |
| S40.87   | Other superficial bite of upper arm   | Diagnosis     | ICD-10-CM |
| S40.871  | Other superficial bite of right upper arm                                     | Diagnosis     | ICD-10-CM |
| S40.871A | Other superficial bite of right upper arm, initial encounter                  | Diagnosis     | ICD-10-CM |
| S40.871D | Other superficial bite of right upper arm, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S40.871S | Other superficial bite of right upper arm, sequela                            | Diagnosis     | ICD-10-CM |
| S40.872  | Other superficial bite of left upper arm                                      | Diagnosis     | ICD-10-CM |
| S40.872A | Other superficial bite of left upper arm, initial encounter                   | Diagnosis     | ICD-10-CM |
| S40.872D | Other superficial bite of left upper arm, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S40.872S | Other superficial bite of left upper arm, sequela                             | Diagnosis     | ICD-10-CM |
| S40.879  | Other superficial bite of unspecified upper arm                               | Diagnosis     | ICD-10-CM |
| S40.879A | Other superficial bite of unspecified upper arm, initial encounter            | Diagnosis     | ICD-10-CM |
| S40.879D | Other superficial bite of unspecified upper arm, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S40.879S | Other superficial bite of unspecified upper arm, sequela                      | Diagnosis     | ICD-10-CM |
| S40.9    | Unspecified superficial injury of shoulder and upper arm                      | Diagnosis     | ICD-10-CM |
| S40.91   | Unspecified superficial injury of shoulder                                    | Diagnosis     | ICD-10-CM |
| S40.911  | Unspecified superficial injury of right shoulder                              | Diagnosis     | ICD-10-CM |
| S40.911A | Unspecified superficial injury of right shoulder, initial encounter           | Diagnosis     | ICD-10-CM |
| S40.911D | Unspecified superficial injury of right shoulder, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S40.911S | Unspecified superficial injury of right shoulder, sequela                     | Diagnosis     | ICD-10-CM |
| S40.912  | Unspecified superficial injury of left shoulder                               | Diagnosis     | ICD-10-CM |
| S40.912A | Unspecified superficial injury of left shoulder, initial encounter            | Diagnosis     | ICD-10-CM |
| S40.912D | Unspecified superficial injury of left shoulder, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S40.912S | Unspecified superficial injury of left shoulder, sequela                      | Diagnosis     | ICD-10-CM |
| S40.919  | Unspecified superficial injury of unspecified shoulder                        | Diagnosis     | ICD-10-CM |
| S40.919A | Unspecified superficial injury of unspecified shoulder, initial encounter     | Diagnosis     | ICD-10-CM |
| S40.919D | Unspecified superficial injury of unspecified shoulder, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S40.919S | Unspecified superficial injury of unspecified shoulder, sequela               | Diagnosis     | ICD-10-CM |
| S40.92   | Unspecified superficial injury of upper arm                                   | Diagnosis     | ICD-10-CM |
| S40.921  | Unspecified superficial injury of right upper arm                             | Diagnosis     | ICD-10-CM |
| S40.921A | Unspecified superficial injury of right upper arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S40.921D | Unspecified superficial injury of right upper arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S40.921S | Unspecified superficial injury of right upper arm, sequela                    | Diagnosis     | ICD-10-CM |
| S40.922  | Unspecified superficial injury of left upper arm                              | Diagnosis     | ICD-10-CM |
| S40.922A | Unspecified superficial injury of left upper arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S40.922D | Unspecified superficial injury of left upper arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S40.922S | Unspecified superficial injury of left upper arm, sequela                     | Diagnosis     | ICD-10-CM |
| S40.929  | Unspecified superficial injury of unspecified upper arm                       | Diagnosis     | ICD-10-CM |
| S40.929A | Unspecified superficial injury of unspecified upper arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S40.929D | Unspecified superficial injury of unspecified upper arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S40.929S | Unspecified superficial injury of unspecified upper arm, sequela              | Diagnosis     | ICD-10-CM |
| S41      | Open wound of shoulder and upper arm  | Diagnosis     | ICD-10-CM |
| S41.0    | Open wound of shoulder  | Diagnosis     | ICD-10-CM |
| S41.00   | Unspecified open wound of shoulder  | Diagnosis     | ICD-10-CM |
| S41.001  | Unspecified open wound of right shoulder                                      | Diagnosis     | ICD-10-CM |
| S41.001A | Unspecified open wound of right shoulder, initial encounter                   | Diagnosis     | ICD-10-CM |
| S41.001D | Unspecified open wound of right shoulder, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S41.001S | Unspecified open wound of right shoulder, sequela                             | Diagnosis     | ICD-10-CM |
| S41.002  | Unspecified open wound of left shoulder                                       | Diagnosis     | ICD-10-CM |
| S41.002A | Unspecified open wound of left shoulder, initial encounter                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S41.002D | Unspecified open wound of left shoulder, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S41.002S | Unspecified open wound of left shoulder, sequela                                  | Diagnosis     | ICD-10-CM |
| S41.009  | Unspecified open wound of unspecified shoulder                                    | Diagnosis     | ICD-10-CM |
| S41.009A | Unspecified open wound of unspecified shoulder, initial encounter                 | Diagnosis     | ICD-10-CM |
| S41.009D | Unspecified open wound of unspecified shoulder, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S41.009S | Unspecified open wound of unspecified shoulder, sequela                           | Diagnosis     | ICD-10-CM |
| S41.01   | Laceration without foreign body of shoulder                                       | Diagnosis     | ICD-10-CM |
| S41.011  | Laceration without foreign body of right shoulder                                 | Diagnosis     | ICD-10-CM |
| S41.011A | Laceration without foreign body of right shoulder, initial encounter              | Diagnosis     | ICD-10-CM |
| S41.011D | Laceration without foreign body of right shoulder, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S41.011S | Laceration without foreign body of right shoulder, sequela                        | Diagnosis     | ICD-10-CM |
| S41.012  | Laceration without foreign body of left shoulder                                  | Diagnosis     | ICD-10-CM |
| S41.012A | Laceration without foreign body of left shoulder, initial encounter               | Diagnosis     | ICD-10-CM |
| S41.012D | Laceration without foreign body of left shoulder, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S41.012S | Laceration without foreign body of left shoulder, sequela                         | Diagnosis     | ICD-10-CM |
| S41.019  | Laceration without foreign body of unspecified shoulder                           | Diagnosis     | ICD-10-CM |
| S41.019A | Laceration without foreign body of unspecified shoulder, initial encounter        | Diagnosis     | ICD-10-CM |
| S41.019D | Laceration without foreign body of unspecified shoulder, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S41.019S | Laceration without foreign body of unspecified shoulder, sequela                  | Diagnosis     | ICD-10-CM |
| S41.02   | Laceration with foreign body of shoulder  | Diagnosis     | ICD-10-CM |
| S41.021  | Laceration with foreign body of right shoulder                                    | Diagnosis     | ICD-10-CM |
| S41.021A | Laceration with foreign body of right shoulder, initial encounter                 | Diagnosis     | ICD-10-CM |
| S41.021D | Laceration with foreign body of right shoulder, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S41.021S | Laceration with foreign body of right shoulder, sequela                           | Diagnosis     | ICD-10-CM |
| S41.022  | Laceration with foreign body of left shoulder                                     | Diagnosis     | ICD-10-CM |
| S41.022A | Laceration with foreign body of left shoulder, initial encounter                  | Diagnosis     | ICD-10-CM |
| S41.022D | Laceration with foreign body of left shoulder, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S41.022S | Laceration with foreign body of left shoulder, sequela                            | Diagnosis     | ICD-10-CM |
| S41.029  | Laceration with foreign body of unspecified shoulder                              | Diagnosis     | ICD-10-CM |
| S41.029A | Laceration with foreign body of unspecified shoulder, initial encounter           | Diagnosis     | ICD-10-CM |
| S41.029D | Laceration with foreign body of unspecified shoulder, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S41.029S | Laceration with foreign body of unspecified shoulder, sequela                     | Diagnosis     | ICD-10-CM |
| S41.03   | Puncture wound without foreign body of shoulder                                   | Diagnosis     | ICD-10-CM |
| S41.031  | Puncture wound without foreign body of right shoulder                             | Diagnosis     | ICD-10-CM |
| S41.031A | Puncture wound without foreign body of right shoulder, initial encounter          | Diagnosis     | ICD-10-CM |
| S41.031D | Puncture wound without foreign body of right shoulder, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S41.031S | Puncture wound without foreign body of right shoulder, sequela                    | Diagnosis     | ICD-10-CM |
| S41.032  | Puncture wound without foreign body of left shoulder                              | Diagnosis     | ICD-10-CM |
| S41.032A | Puncture wound without foreign body of left shoulder, initial encounter           | Diagnosis     | ICD-10-CM |
| S41.032D | Puncture wound without foreign body of left shoulder, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S41.032S | Puncture wound without foreign body of left shoulder, sequela                     | Diagnosis     | ICD-10-CM |
| S41.039  | Puncture wound without foreign body of unspecified shoulder                       | Diagnosis     | ICD-10-CM |
| S41.039A | Puncture wound without foreign body of unspecified shoulder, initial encounter    | Diagnosis     | ICD-10-CM |
| S41.039D | Puncture wound without foreign body of unspecified shoulder, subsequent encounter | Diagnosis     | ICD-10-CM |
| S41.039S | Puncture wound without foreign body of unspecified shoulder, sequela              | Diagnosis     | ICD-10-CM |
| S41.04   | Puncture wound with foreign body of shoulder                                      | Diagnosis     | ICD-10-CM |
| S41.041  | Puncture wound with foreign body of right shoulder                                | Diagnosis     | ICD-10-CM |
| S41.041A | Puncture wound with foreign body of right shoulder, initial encounter             | Diagnosis     | ICD-10-CM |
| S41.041D | Puncture wound with foreign body of right shoulder, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S41.041S | Puncture wound with foreign body of right shoulder, sequela                       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S41.042  | Puncture wound with foreign body of left shoulder                              | Diagnosis     | ICD-10-CM |
| S41.042A | Puncture wound with foreign body of left shoulder, initial encounter           | Diagnosis     | ICD-10-CM |
| S41.042D | Puncture wound with foreign body of left shoulder, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S41.042S | Puncture wound with foreign body of left shoulder, sequela                     | Diagnosis     | ICD-10-CM |
| S41.049  | Puncture wound with foreign body of unspecified shoulder                       | Diagnosis     | ICD-10-CM |
| S41.049A | Puncture wound with foreign body of unspecified shoulder, initial encounter    | Diagnosis     | ICD-10-CM |
| S41.049D | Puncture wound with foreign body of unspecified shoulder, subsequent encounter | Diagnosis     | ICD-10-CM |
| S41.049S | Puncture wound with foreign body of unspecified shoulder, sequela              | Diagnosis     | ICD-10-CM |
| S41.05   | Open bite of shoulder  | Diagnosis     | ICD-10-CM |
| S41.051  | Open bite of right shoulder  | Diagnosis     | ICD-10-CM |
| S41.051A | Open bite of right shoulder, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S41.051D | Open bite of right shoulder, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S41.051S | Open bite of right shoulder, sequela   | Diagnosis     | ICD-10-CM |
| S41.052  | Open bite of left shoulder   | Diagnosis     | ICD-10-CM |
| S41.052A | Open bite of left shoulder, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S41.052D | Open bite of left shoulder, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S41.052S | Open bite of left shoulder, sequela  | Diagnosis     | ICD-10-CM |
| S41.059  | Open bite of unspecified shoulder  | Diagnosis     | ICD-10-CM |
| S41.059A | Open bite of unspecified shoulder, initial encounter                           | Diagnosis     | ICD-10-CM |
| S41.059D | Open bite of unspecified shoulder, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S41.059S | Open bite of unspecified shoulder, sequela                                     | Diagnosis     | ICD-10-CM |
| S41.1    | Open wound of upper arm  | Diagnosis     | ICD-10-CM |
| S41.10   | Unspecified open wound of upper arm  | Diagnosis     | ICD-10-CM |
| S41.101  | Unspecified open wound of right upper arm                                      | Diagnosis     | ICD-10-CM |
| S41.101A | Unspecified open wound of right upper arm, initial encounter                   | Diagnosis     | ICD-10-CM |
| S41.101D | Unspecified open wound of right upper arm, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S41.101S | Unspecified open wound of right upper arm, sequela                             | Diagnosis     | ICD-10-CM |
| S41.102  | Unspecified open wound of left upper arm                                       | Diagnosis     | ICD-10-CM |
| S41.102A | Unspecified open wound of left upper arm, initial encounter                    | Diagnosis     | ICD-10-CM |
| S41.102D | Unspecified open wound of left upper arm, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S41.102S | Unspecified open wound of left upper arm, sequela                              | Diagnosis     | ICD-10-CM |
| S41.109  | Unspecified open wound of unspecified upper arm                                | Diagnosis     | ICD-10-CM |
| S41.109A | Unspecified open wound of unspecified upper arm, initial encounter             | Diagnosis     | ICD-10-CM |
| S41.109D | Unspecified open wound of unspecified upper arm, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S41.109S | Unspecified open wound of unspecified upper arm, sequela                       | Diagnosis     | ICD-10-CM |
| S41.11   | Laceration without foreign body of upper arm                                   | Diagnosis     | ICD-10-CM |
| S41.111  | Laceration without foreign body of right upper arm                             | Diagnosis     | ICD-10-CM |
| S41.111A | Laceration without foreign body of right upper arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S41.111D | Laceration without foreign body of right upper arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S41.111S | Laceration without foreign body of right upper arm, sequela                    | Diagnosis     | ICD-10-CM |
| S41.112  | Laceration without foreign body of left upper arm                              | Diagnosis     | ICD-10-CM |
| S41.112A | Laceration without foreign body of left upper arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S41.112D | Laceration without foreign body of left upper arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S41.112S | Laceration without foreign body of left upper arm, sequela                     | Diagnosis     | ICD-10-CM |
| S41.119  | Laceration without foreign body of unspecified upper arm                       | Diagnosis     | ICD-10-CM |
| S41.119A | Laceration without foreign body of unspecified upper arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S41.119D | Laceration without foreign body of unspecified upper arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S41.119S | Laceration without foreign body of unspecified upper arm, sequela              | Diagnosis     | ICD-10-CM |
| S41.12   | Laceration with foreign body of upper arm                                      | Diagnosis     | ICD-10-CM |
| S41.121  | Laceration with foreign body of right upper arm                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S41.121A | Laceration with foreign body of right upper arm, initial encounter                 | Diagnosis     | ICD-10-CM |
| S41.121D | Laceration with foreign body of right upper arm, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S41.121S | Laceration with foreign body of right upper arm, sequela                           | Diagnosis     | ICD-10-CM |
| S41.122  | Laceration with foreign body of left upper arm                                     | Diagnosis     | ICD-10-CM |
| S41.122A | Laceration with foreign body of left upper arm, initial encounter                  | Diagnosis     | ICD-10-CM |
| S41.122D | Laceration with foreign body of left upper arm, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S41.122S | Laceration with foreign body of left upper arm, sequela                            | Diagnosis     | ICD-10-CM |
| S41.129  | Laceration with foreign body of unspecified upper arm                              | Diagnosis     | ICD-10-CM |
| S41.129A | Laceration with foreign body of unspecified upper arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S41.129D | Laceration with foreign body of unspecified upper arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S41.129S | Laceration with foreign body of unspecified upper arm, sequela                     | Diagnosis     | ICD-10-CM |
| S41.13   | Puncture wound without foreign body of upper arm                                   | Diagnosis     | ICD-10-CM |
| S41.131  | Puncture wound without foreign body of right upper arm                             | Diagnosis     | ICD-10-CM |
| S41.131A | Puncture wound without foreign body of right upper arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S41.131D | Puncture wound without foreign body of right upper arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S41.131S | Puncture wound without foreign body of right upper arm, sequela                    | Diagnosis     | ICD-10-CM |
| S41.132  | Puncture wound without foreign body of left upper arm                              | Diagnosis     | ICD-10-CM |
| S41.132A | Puncture wound without foreign body of left upper arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S41.132D | Puncture wound without foreign body of left upper arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S41.132S | Puncture wound without foreign body of left upper arm, sequela                     | Diagnosis     | ICD-10-CM |
| S41.139  | Puncture wound without foreign body of unspecified upper arm                       | Diagnosis     | ICD-10-CM |
| S41.139A | Puncture wound without foreign body of unspecified upper arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S41.139D | Puncture wound without foreign body of unspecified upper arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S41.139S | Puncture wound without foreign body of unspecified upper arm, sequela              | Diagnosis     | ICD-10-CM |
| S41.14   | Puncture wound with foreign body of upper arm                                      | Diagnosis     | ICD-10-CM |
| S41.141  | Puncture wound with foreign body of right upper arm                                | Diagnosis     | ICD-10-CM |
| S41.141A | Puncture wound with foreign body of right upper arm, initial encounter             | Diagnosis     | ICD-10-CM |
| S41.141D | Puncture wound with foreign body of right upper arm, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S41.141S | Puncture wound with foreign body of right upper arm, sequela                       | Diagnosis     | ICD-10-CM |
| S41.142  | Puncture wound with foreign body of left upper arm                                 | Diagnosis     | ICD-10-CM |
| S41.142A | Puncture wound with foreign body of left upper arm, initial encounter              | Diagnosis     | ICD-10-CM |
| S41.142D | Puncture wound with foreign body of left upper arm, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S41.142S | Puncture wound with foreign body of left upper arm, sequela                        | Diagnosis     | ICD-10-CM |
| S41.149  | Puncture wound with foreign body of unspecified upper arm                          | Diagnosis     | ICD-10-CM |
| S41.149A | Puncture wound with foreign body of unspecified upper arm, initial encounter       | Diagnosis     | ICD-10-CM |
| S41.149D | Puncture wound with foreign body of unspecified upper arm, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S41.149S | Puncture wound with foreign body of unspecified upper arm, sequela                 | Diagnosis     | ICD-10-CM |
| S41.15   | Open bite of upper arm   | Diagnosis     | ICD-10-CM |
| S41.151  | Open bite of right upper arm   | Diagnosis     | ICD-10-CM |
| S41.151A | Open bite of right upper arm, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S41.151D | Open bite of right upper arm, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S41.151S | Open bite of right upper arm, sequela  | Diagnosis     | ICD-10-CM |
| S41.152  | Open bite of left upper arm  | Diagnosis     | ICD-10-CM |
| S41.152A | Open bite of left upper arm, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S41.152D | Open bite of left upper arm, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S41.152S | Open bite of left upper arm, sequela   | Diagnosis     | ICD-10-CM |
| S41.159  | Open bite of unspecified upper arm   | Diagnosis     | ICD-10-CM |
| S41.159A | Open bite of unspecified upper arm, initial encounter                              | Diagnosis     | ICD-10-CM |
| S41.159D | Open bite of unspecified upper arm, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S41.159S | Open bite of unspecified upper arm, sequela  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42      | Fracture of shoulder and upper arm   | Diagnosis     | ICD-10-CM |
| S42.0    | Fracture of clavicle   | Diagnosis     | ICD-10-CM |
| S42.00   | Fracture of unspecified part of clavicle   | Diagnosis     | ICD-10-CM |
| S42.001  | Fracture of unspecified part of right clavicle   | Diagnosis     | ICD-10-CM |
| S42.001A | Fracture of unspecified part of right clavicle, initial encounter for closed fracture                                | Diagnosis     | ICD-10-CM |
| S42.001B | Fracture of unspecified part of right clavicle, initial encounter for open fracture                                  | Diagnosis     | ICD-10-CM |
| S42.001D | Fracture of unspecified part of right clavicle, subsequent encounter for fracture with routine healing               | Diagnosis     | ICD-10-CM |
| S42.001G | Fracture of unspecified part of right clavicle, subsequent encounter for fracture with delayed healing               | Diagnosis     | ICD-10-CM |
| S42.001K | Fracture of unspecified part of right clavicle, subsequent encounter for fracture with nonunion                      | Diagnosis     | ICD-10-CM |
| S42.001P | Fracture of unspecified part of right clavicle, subsequent encounter for fracture with malunion                      | Diagnosis     | ICD-10-CM |
| S42.001S | Fracture of unspecified part of right clavicle, sequela  | Diagnosis     | ICD-10-CM |
| S42.002  | Fracture of unspecified part of left clavicle  | Diagnosis     | ICD-10-CM |
| S42.002A | Fracture of unspecified part of left clavicle, initial encounter for closed fracture                                 | Diagnosis     | ICD-10-CM |
| S42.002B | Fracture of unspecified part of left clavicle, initial encounter for open fracture                                   | Diagnosis     | ICD-10-CM |
| S42.002D | Fracture of unspecified part of left clavicle, subsequent encounter for fracture with routine healing                | Diagnosis     | ICD-10-CM |
| S42.002G | Fracture of unspecified part of left clavicle, subsequent encounter for fracture with delayed healing                | Diagnosis     | ICD-10-CM |
| S42.002K | Fracture of unspecified part of left clavicle, subsequent encounter for fracture with nonunion                       | Diagnosis     | ICD-10-CM |
| S42.002P | Fracture of unspecified part of left clavicle, subsequent encounter for fracture with malunion                       | Diagnosis     | ICD-10-CM |
| S42.002S | Fracture of unspecified part of left clavicle, sequela   | Diagnosis     | ICD-10-CM |
| S42.009  | Fracture of unspecified part of unspecified clavicle   | Diagnosis     | ICD-10-CM |
| S42.009A | Fracture of unspecified part of unspecified clavicle, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S42.009B | Fracture of unspecified part of unspecified clavicle, initial encounter for open fracture                            | Diagnosis     | ICD-10-CM |
| S42.009D | Fracture of unspecified part of unspecified clavicle, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S42.009G | Fracture of unspecified part of unspecified clavicle, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S42.009K | Fracture of unspecified part of unspecified clavicle, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S42.009P | Fracture of unspecified part of unspecified clavicle, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S42.009S | Fracture of unspecified part of unspecified clavicle, sequela  | Diagnosis     | ICD-10-CM |
| S42.01   | Fracture of sternal end of clavicle  | Diagnosis     | ICD-10-CM |
| S42.011  | Anterior displaced fracture of sternal end of right clavicle   | Diagnosis     | ICD-10-CM |
| S42.011A | Anterior displaced fracture of sternal end of right clavicle, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.011B | Anterior displaced fracture of sternal end of right clavicle, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.011D | Anterior displaced fracture of sternal end of right clavicle, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.011G | Anterior displaced fracture of sternal end of right clavicle, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.011K | Anterior displaced fracture of sternal end of right clavicle, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S42.011P | Anterior displaced fracture of sternal end of right clavicle, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S42.011S | Anterior displaced fracture of sternal end of right clavicle, sequela  | Diagnosis     | ICD-10-CM |
| S42.012  | Anterior displaced fracture of sternal end of left clavicle  | Diagnosis     | ICD-10-CM |
| S42.012A | Anterior displaced fracture of sternal end of left clavicle, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.012B | Anterior displaced fracture of sternal end of left clavicle, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.012D | Anterior displaced fracture of sternal end of left clavicle, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.012G | Anterior displaced fracture of sternal end of left clavicle, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.012K | Anterior displaced fracture of sternal end of left clavicle, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.012P | Anterior displaced fracture of sternal end of left clavicle, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.012S | Anterior displaced fracture of sternal end of left clavicle, sequela   | Diagnosis     | ICD-10-CM |
| S42.013  | Anterior displaced fracture of sternal end of unspecified clavicle   | Diagnosis     | ICD-10-CM |
| S42.013A | Anterior displaced fracture of sternal end of unspecified clavicle, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.013B | Anterior displaced fracture of sternal end of unspecified clavicle, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.013D | Anterior displaced fracture of sternal end of unspecified clavicle, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.013G | Anterior displaced fracture of sternal end of unspecified clavicle, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.013K | Anterior displaced fracture of sternal end of unspecified clavicle, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.013P | Anterior displaced fracture of sternal end of unspecified clavicle, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.013S | Anterior displaced fracture of sternal end of unspecified clavicle, sequela  | Diagnosis     | ICD-10-CM |
| S42.014  | Posterior displaced fracture of sternal end of right clavicle  | Diagnosis     | ICD-10-CM |
| S42.014A | Posterior displaced fracture of sternal end of right clavicle, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S42.014B | Posterior displaced fracture of sternal end of right clavicle, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S42.014D | Posterior displaced fracture of sternal end of right clavicle, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S42.014G | Posterior displaced fracture of sternal end of right clavicle, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S42.014K | Posterior displaced fracture of sternal end of right clavicle, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S42.014P | Posterior displaced fracture of sternal end of right clavicle, subsequent encounter for fracture with malunion             | Diagnosis     | ICD-10-CM |
| S42.014S | Posterior displaced fracture of sternal end of right clavicle, sequela   | Diagnosis     | ICD-10-CM |
| S42.015  | Posterior displaced fracture of sternal end of left clavicle   | Diagnosis     | ICD-10-CM |
| S42.015A | Posterior displaced fracture of sternal end of left clavicle, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S42.015B | Posterior displaced fracture of sternal end of left clavicle, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.015D | Posterior displaced fracture of sternal end of left clavicle, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.015G | Posterior displaced fracture of sternal end of left clavicle, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.015K | Posterior displaced fracture of sternal end of left clavicle, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.015P | Posterior displaced fracture of sternal end of left clavicle, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.015S | Posterior displaced fracture of sternal end of left clavicle, sequela   | Diagnosis     | ICD-10-CM |
| S42.016  | Posterior displaced fracture of sternal end of unspecified clavicle   | Diagnosis     | ICD-10-CM |
| S42.016A | Posterior displaced fracture of sternal end of unspecified clavicle, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.016B | Posterior displaced fracture of sternal end of unspecified clavicle, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.016D | Posterior displaced fracture of sternal end of unspecified clavicle, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.016G | Posterior displaced fracture of sternal end of unspecified clavicle, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.016K | Posterior displaced fracture of sternal end of unspecified clavicle, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.016P | Posterior displaced fracture of sternal end of unspecified clavicle, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.016S | Posterior displaced fracture of sternal end of unspecified clavicle, sequela  | Diagnosis     | ICD-10-CM |
| S42.017  | Nondisplaced fracture of sternal end of right clavicle  | Diagnosis     | ICD-10-CM |
| S42.017A | Nondisplaced fracture of sternal end of right clavicle, initial encounter for closed fracture                               | Diagnosis     | ICD-10-CM |
| S42.017B | Nondisplaced fracture of sternal end of right clavicle, initial encounter for open fracture                                 | Diagnosis     | ICD-10-CM |
| S42.017D | Nondisplaced fracture of sternal end of right clavicle, subsequent encounter for fracture with routine healing              | Diagnosis     | ICD-10-CM |
| S42.017G | Nondisplaced fracture of sternal end of right clavicle, subsequent encounter for fracture with delayed healing              | Diagnosis     | ICD-10-CM |
| S42.017K | Nondisplaced fracture of sternal end of right clavicle, subsequent encounter for fracture with nonunion                     | Diagnosis     | ICD-10-CM |
| S42.017P | Nondisplaced fracture of sternal end of right clavicle, subsequent encounter for fracture with malunion                     | Diagnosis     | ICD-10-CM |
| S42.017S | Nondisplaced fracture of sternal end of right clavicle, sequela   | Diagnosis     | ICD-10-CM |
| S42.018  | Nondisplaced fracture of sternal end of left clavicle   | Diagnosis     | ICD-10-CM |
| S42.018A | Nondisplaced fracture of sternal end of left clavicle, initial encounter for closed fracture                                | Diagnosis     | ICD-10-CM |
| S42.018B | Nondisplaced fracture of sternal end of left clavicle, initial encounter for open fracture                                  | Diagnosis     | ICD-10-CM |
| S42.018D | Nondisplaced fracture of sternal end of left clavicle, subsequent encounter for fracture with routine healing               | Diagnosis     | ICD-10-CM |
| S42.018G | Nondisplaced fracture of sternal end of left clavicle, subsequent encounter for fracture with delayed healing               | Diagnosis     | ICD-10-CM |
| S42.018K | Nondisplaced fracture of sternal end of left clavicle, subsequent encounter for fracture with nonunion                      | Diagnosis     | ICD-10-CM |
| S42.018P | Nondisplaced fracture of sternal end of left clavicle, subsequent encounter for fracture with malunion                      | Diagnosis     | ICD-10-CM |
| S42.018S | Nondisplaced fracture of sternal end of left clavicle, sequela  | Diagnosis     | ICD-10-CM |
| S42.019  | Nondisplaced fracture of sternal end of unspecified clavicle  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.019A | Nondisplaced fracture of sternal end of unspecified clavicle, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.019B | Nondisplaced fracture of sternal end of unspecified clavicle, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.019D | Nondisplaced fracture of sternal end of unspecified clavicle, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.019G | Nondisplaced fracture of sternal end of unspecified clavicle, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.019K | Nondisplaced fracture of sternal end of unspecified clavicle, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.019P | Nondisplaced fracture of sternal end of unspecified clavicle, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.019S | Nondisplaced fracture of sternal end of unspecified clavicle, sequela  | Diagnosis     | ICD-10-CM |
| S42.02   | Fracture of shaft of clavicle  | Diagnosis     | ICD-10-CM |
| S42.021  | Displaced fracture of shaft of right clavicle  | Diagnosis     | ICD-10-CM |
| S42.021A | Displaced fracture of shaft of right clavicle, initial encounter for closed fracture                                 | Diagnosis     | ICD-10-CM |
| S42.021B | Displaced fracture of shaft of right clavicle, initial encounter for open fracture                                   | Diagnosis     | ICD-10-CM |
| S42.021D | Displaced fracture of shaft of right clavicle, subsequent encounter for fracture with routine healing                | Diagnosis     | ICD-10-CM |
| S42.021G | Displaced fracture of shaft of right clavicle, subsequent encounter for fracture with delayed healing                | Diagnosis     | ICD-10-CM |
| S42.021K | Displaced fracture of shaft of right clavicle, subsequent encounter for fracture with nonunion                       | Diagnosis     | ICD-10-CM |
| S42.021P | Displaced fracture of shaft of right clavicle, subsequent encounter for fracture with malunion                       | Diagnosis     | ICD-10-CM |
| S42.021S | Displaced fracture of shaft of right clavicle, sequela   | Diagnosis     | ICD-10-CM |
| S42.022  | Displaced fracture of shaft of left clavicle   | Diagnosis     | ICD-10-CM |
| S42.022A | Displaced fracture of shaft of left clavicle, initial encounter for closed fracture                                  | Diagnosis     | ICD-10-CM |
| S42.022B | Displaced fracture of shaft of left clavicle, initial encounter for open fracture                                    | Diagnosis     | ICD-10-CM |
| S42.022D | Displaced fracture of shaft of left clavicle, subsequent encounter for fracture with routine healing                 | Diagnosis     | ICD-10-CM |
| S42.022G | Displaced fracture of shaft of left clavicle, subsequent encounter for fracture with delayed healing                 | Diagnosis     | ICD-10-CM |
| S42.022K | Displaced fracture of shaft of left clavicle, subsequent encounter for fracture with nonunion                        | Diagnosis     | ICD-10-CM |
| S42.022P | Displaced fracture of shaft of left clavicle, subsequent encounter for fracture with malunion                        | Diagnosis     | ICD-10-CM |
| S42.022S | Displaced fracture of shaft of left clavicle, sequela  | Diagnosis     | ICD-10-CM |
| S42.023  | Displaced fracture of shaft of unspecified clavicle  | Diagnosis     | ICD-10-CM |
| S42.023A | Displaced fracture of shaft of unspecified clavicle, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S42.023B | Displaced fracture of shaft of unspecified clavicle, initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |
| S42.023D | Displaced fracture of shaft of unspecified clavicle, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S42.023G | Displaced fracture of shaft of unspecified clavicle, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S42.023K | Displaced fracture of shaft of unspecified clavicle, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S42.023P | Displaced fracture of shaft of unspecified clavicle, subsequent encounter for fracture with malunion                 | Diagnosis     | ICD-10-CM |
| S42.023S | Displaced fracture of shaft of unspecified clavicle, sequela   | Diagnosis     | ICD-10-CM |
| S42.024  | Nondisplaced fracture of shaft of right clavicle   | Diagnosis     | ICD-10-CM |
| S42.024A | Nondisplaced fracture of shaft of right clavicle, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.024B | Nondisplaced fracture of shaft of right clavicle, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S42.024D | Nondisplaced fracture of shaft of right clavicle, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S42.024G | Nondisplaced fracture of shaft of right clavicle, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S42.024K | Nondisplaced fracture of shaft of right clavicle, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S42.024P | Nondisplaced fracture of shaft of right clavicle, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S42.024S | Nondisplaced fracture of shaft of right clavicle, sequela  | Diagnosis     | ICD-10-CM |
| S42.025  | Nondisplaced fracture of shaft of left clavicle  | Diagnosis     | ICD-10-CM |
| S42.025A | Nondisplaced fracture of shaft of left clavicle, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.025B | Nondisplaced fracture of shaft of left clavicle, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.025D | Nondisplaced fracture of shaft of left clavicle, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.025G | Nondisplaced fracture of shaft of left clavicle, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.025K | Nondisplaced fracture of shaft of left clavicle, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.025P | Nondisplaced fracture of shaft of left clavicle, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.025S | Nondisplaced fracture of shaft of left clavicle, sequela   | Diagnosis     | ICD-10-CM |
| S42.026  | Nondisplaced fracture of shaft of unspecified clavicle   | Diagnosis     | ICD-10-CM |
| S42.026A | Nondisplaced fracture of shaft of unspecified clavicle, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.026B | Nondisplaced fracture of shaft of unspecified clavicle, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.026D | Nondisplaced fracture of shaft of unspecified clavicle, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.026G | Nondisplaced fracture of shaft of unspecified clavicle, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.026K | Nondisplaced fracture of shaft of unspecified clavicle, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.026P | Nondisplaced fracture of shaft of unspecified clavicle, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.026S | Nondisplaced fracture of shaft of unspecified clavicle, sequela  | Diagnosis     | ICD-10-CM |
| S42.03   | Fracture of lateral end of clavicle  | Diagnosis     | ICD-10-CM |
| S42.031  | Displaced fracture of lateral end of right clavicle  | Diagnosis     | ICD-10-CM |
| S42.031A | Displaced fracture of lateral end of right clavicle, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S42.031B | Displaced fracture of lateral end of right clavicle, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S42.031D | Displaced fracture of lateral end of right clavicle, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S42.031G | Displaced fracture of lateral end of right clavicle, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S42.031K | Displaced fracture of lateral end of right clavicle, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S42.031P | Displaced fracture of lateral end of right clavicle, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S42.031S | Displaced fracture of lateral end of right clavicle, sequela   | Diagnosis     | ICD-10-CM |
| S42.032  | Displaced fracture of lateral end of left clavicle   | Diagnosis     | ICD-10-CM |
| S42.032A | Displaced fracture of lateral end of left clavicle, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S42.032B | Displaced fracture of lateral end of left clavicle, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S42.032D | Displaced fracture of lateral end of left clavicle, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.032G | Displaced fracture of lateral end of left clavicle, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.032K | Displaced fracture of lateral end of left clavicle, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.032P | Displaced fracture of lateral end of left clavicle, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.032S | Displaced fracture of lateral end of left clavicle, sequela   | Diagnosis     | ICD-10-CM |
| S42.033  | Displaced fracture of lateral end of unspecified clavicle   | Diagnosis     | ICD-10-CM |
| S42.033A | Displaced fracture of lateral end of unspecified clavicle, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.033B | Displaced fracture of lateral end of unspecified clavicle, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.033D | Displaced fracture of lateral end of unspecified clavicle, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.033G | Displaced fracture of lateral end of unspecified clavicle, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.033K | Displaced fracture of lateral end of unspecified clavicle, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.033P | Displaced fracture of lateral end of unspecified clavicle, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.033S | Displaced fracture of lateral end of unspecified clavicle, sequela  | Diagnosis     | ICD-10-CM |
| S42.034  | Nondisplaced fracture of lateral end of right clavicle  | Diagnosis     | ICD-10-CM |
| S42.034A | Nondisplaced fracture of lateral end of right clavicle, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S42.034B | Nondisplaced fracture of lateral end of right clavicle, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S42.034D | Nondisplaced fracture of lateral end of right clavicle, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S42.034G | Nondisplaced fracture of lateral end of right clavicle, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S42.034K | Nondisplaced fracture of lateral end of right clavicle, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S42.034P | Nondisplaced fracture of lateral end of right clavicle, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S42.034S | Nondisplaced fracture of lateral end of right clavicle, sequela   | Diagnosis     | ICD-10-CM |
| S42.035  | Nondisplaced fracture of lateral end of left clavicle   | Diagnosis     | ICD-10-CM |
| S42.035A | Nondisplaced fracture of lateral end of left clavicle, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S42.035B | Nondisplaced fracture of lateral end of left clavicle, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S42.035D | Nondisplaced fracture of lateral end of left clavicle, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S42.035G | Nondisplaced fracture of lateral end of left clavicle, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S42.035K | Nondisplaced fracture of lateral end of left clavicle, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S42.035P | Nondisplaced fracture of lateral end of left clavicle, subsequent encounter for fracture with malunion            | Diagnosis     | ICD-10-CM |
| S42.035S | Nondisplaced fracture of lateral end of left clavicle, sequela  | Diagnosis     | ICD-10-CM |
| S42.036  | Nondisplaced fracture of lateral end of unspecified clavicle  | Diagnosis     | ICD-10-CM |
| S42.036A | Nondisplaced fracture of lateral end of unspecified clavicle, initial encounter for closed fracture               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S42.036B | Nondisplaced fracture of lateral end of unspecified clavicle, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S42.036D | Nondisplaced fracture of lateral end of unspecified clavicle, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S42.036G | Nondisplaced fracture of lateral end of unspecified clavicle, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S42.036K | Nondisplaced fracture of lateral end of unspecified clavicle, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S42.036P | Nondisplaced fracture of lateral end of unspecified clavicle, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S42.036S | Nondisplaced fracture of lateral end of unspecified clavicle, sequela   | Diagnosis     | ICD-10-CM |
| S42.1    | Fracture of scapula   | Diagnosis     | ICD-10-CM |
| S42.10   | Fracture of unspecified part of scapula   | Diagnosis     | ICD-10-CM |
| S42.101  | Fracture of unspecified part of scapula, right shoulder   | Diagnosis     | ICD-10-CM |
| S42.101A | Fracture of unspecified part of scapula, right shoulder, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S42.101B | Fracture of unspecified part of scapula, right shoulder, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S42.101D | Fracture of unspecified part of scapula, right shoulder, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S42.101G | Fracture of unspecified part of scapula, right shoulder, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S42.101K | Fracture of unspecified part of scapula, right shoulder, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S42.101P | Fracture of unspecified part of scapula, right shoulder, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S42.101S | Fracture of unspecified part of scapula, right shoulder, sequela  | Diagnosis     | ICD-10-CM |
| S42.102  | Fracture of unspecified part of scapula, left shoulder  | Diagnosis     | ICD-10-CM |
| S42.102A | Fracture of unspecified part of scapula, left shoulder, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.102B | Fracture of unspecified part of scapula, left shoulder, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.102D | Fracture of unspecified part of scapula, left shoulder, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.102G | Fracture of unspecified part of scapula, left shoulder, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.102K | Fracture of unspecified part of scapula, left shoulder, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.102P | Fracture of unspecified part of scapula, left shoulder, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.102S | Fracture of unspecified part of scapula, left shoulder, sequela   | Diagnosis     | ICD-10-CM |
| S42.109  | Fracture of unspecified part of scapula, unspecified shoulder   | Diagnosis     | ICD-10-CM |
| S42.109A | Fracture of unspecified part of scapula, unspecified shoulder, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.109B | Fracture of unspecified part of scapula, unspecified shoulder, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.109D | Fracture of unspecified part of scapula, unspecified shoulder, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.109G | Fracture of unspecified part of scapula, unspecified shoulder, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.109K | Fracture of unspecified part of scapula, unspecified shoulder, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.109P | Fracture of unspecified part of scapula, unspecified shoulder, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S42.109S | Fracture of unspecified part of scapula, unspecified shoulder, sequela  | Diagnosis     | ICD-10-CM |
| S42.11   | Fracture of body of scapula   | Diagnosis     | ICD-10-CM |
| S42.111  | Displaced fracture of body of scapula, right shoulder   | Diagnosis     | ICD-10-CM |
| S42.111A | Displaced fracture of body of scapula, right shoulder, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S42.111B | Displaced fracture of body of scapula, right shoulder, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S42.111D | Displaced fracture of body of scapula, right shoulder, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S42.111G | Displaced fracture of body of scapula, right shoulder, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S42.111K | Displaced fracture of body of scapula, right shoulder, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S42.111P | Displaced fracture of body of scapula, right shoulder, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S42.111S | Displaced fracture of body of scapula, right shoulder, sequela  | Diagnosis     | ICD-10-CM |
| S42.112  | Displaced fracture of body of scapula, left shoulder  | Diagnosis     | ICD-10-CM |
| S42.112A | Displaced fracture of body of scapula, left shoulder, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.112B | Displaced fracture of body of scapula, left shoulder, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.112D | Displaced fracture of body of scapula, left shoulder, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.112G | Displaced fracture of body of scapula, left shoulder, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.112K | Displaced fracture of body of scapula, left shoulder, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.112P | Displaced fracture of body of scapula, left shoulder, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.112S | Displaced fracture of body of scapula, left shoulder, sequela   | Diagnosis     | ICD-10-CM |
| S42.113  | Displaced fracture of body of scapula, unspecified shoulder   | Diagnosis     | ICD-10-CM |
| S42.113A | Displaced fracture of body of scapula, unspecified shoulder, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.113B | Displaced fracture of body of scapula, unspecified shoulder, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.113D | Displaced fracture of body of scapula, unspecified shoulder, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.113G | Displaced fracture of body of scapula, unspecified shoulder, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.113K | Displaced fracture of body of scapula, unspecified shoulder, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.113P | Displaced fracture of body of scapula, unspecified shoulder, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.113S | Displaced fracture of body of scapula, unspecified shoulder, sequela  | Diagnosis     | ICD-10-CM |
| S42.114  | Nondisplaced fracture of body of scapula, right shoulder  | Diagnosis     | ICD-10-CM |
| S42.114A | Nondisplaced fracture of body of scapula, right shoulder, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S42.114B | Nondisplaced fracture of body of scapula, right shoulder, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S42.114D | Nondisplaced fracture of body of scapula, right shoulder, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S42.114G | Nondisplaced fracture of body of scapula, right shoulder, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S42.114K | Nondisplaced fracture of body of scapula, right shoulder, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.114P | Nondisplaced fracture of body of scapula, right shoulder, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S42.114S | Nondisplaced fracture of body of scapula, right shoulder, sequela  | Diagnosis     | ICD-10-CM |
| S42.115  | Nondisplaced fracture of body of scapula, left shoulder  | Diagnosis     | ICD-10-CM |
| S42.115A | Nondisplaced fracture of body of scapula, left shoulder, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.115B | Nondisplaced fracture of body of scapula, left shoulder, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.115D | Nondisplaced fracture of body of scapula, left shoulder, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.115G | Nondisplaced fracture of body of scapula, left shoulder, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.115K | Nondisplaced fracture of body of scapula, left shoulder, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.115P | Nondisplaced fracture of body of scapula, left shoulder, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.115S | Nondisplaced fracture of body of scapula, left shoulder, sequela   | Diagnosis     | ICD-10-CM |
| S42.116  | Nondisplaced fracture of body of scapula, unspecified shoulder   | Diagnosis     | ICD-10-CM |
| S42.116A | Nondisplaced fracture of body of scapula, unspecified shoulder, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.116B | Nondisplaced fracture of body of scapula, unspecified shoulder, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.116D | Nondisplaced fracture of body of scapula, unspecified shoulder, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.116G | Nondisplaced fracture of body of scapula, unspecified shoulder, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.116K | Nondisplaced fracture of body of scapula, unspecified shoulder, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.116P | Nondisplaced fracture of body of scapula, unspecified shoulder, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.116S | Nondisplaced fracture of body of scapula, unspecified shoulder, sequela  | Diagnosis     | ICD-10-CM |
| S42.12   | Fracture of acromial process   | Diagnosis     | ICD-10-CM |
| S42.121  | Displaced fracture of acromial process, right shoulder   | Diagnosis     | ICD-10-CM |
| S42.121A | Displaced fracture of acromial process, right shoulder, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S42.121B | Displaced fracture of acromial process, right shoulder, initial encounter for open fracture                            | Diagnosis     | ICD-10-CM |
| S42.121D | Displaced fracture of acromial process, right shoulder, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S42.121G | Displaced fracture of acromial process, right shoulder, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S42.121K | Displaced fracture of acromial process, right shoulder, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S42.121P | Displaced fracture of acromial process, right shoulder, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S42.121S | Displaced fracture of acromial process, right shoulder, sequela  | Diagnosis     | ICD-10-CM |
| S42.122  | Displaced fracture of acromial process, left shoulder  | Diagnosis     | ICD-10-CM |
| S42.122A | Displaced fracture of acromial process, left shoulder, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S42.122B | Displaced fracture of acromial process, left shoulder, initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |
| S42.122D | Displaced fracture of acromial process, left shoulder, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S42.122G | Displaced fracture of acromial process, left shoulder, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.122K | Displaced fracture of acromial process, left shoulder, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.122P | Displaced fracture of acromial process, left shoulder, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.122S | Displaced fracture of acromial process, left shoulder, sequela   | Diagnosis     | ICD-10-CM |
| S42.123  | Displaced fracture of acromial process, unspecified shoulder   | Diagnosis     | ICD-10-CM |
| S42.123A | Displaced fracture of acromial process, unspecified shoulder, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.123B | Displaced fracture of acromial process, unspecified shoulder, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.123D | Displaced fracture of acromial process, unspecified shoulder, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.123G | Displaced fracture of acromial process, unspecified shoulder, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.123K | Displaced fracture of acromial process, unspecified shoulder, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.123P | Displaced fracture of acromial process, unspecified shoulder, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.123S | Displaced fracture of acromial process, unspecified shoulder, sequela  | Diagnosis     | ICD-10-CM |
| S42.124  | Nondisplaced fracture of acromial process, right shoulder  | Diagnosis     | ICD-10-CM |
| S42.124A | Nondisplaced fracture of acromial process, right shoulder, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S42.124B | Nondisplaced fracture of acromial process, right shoulder, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S42.124D | Nondisplaced fracture of acromial process, right shoulder, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S42.124G | Nondisplaced fracture of acromial process, right shoulder, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S42.124K | Nondisplaced fracture of acromial process, right shoulder, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S42.124P | Nondisplaced fracture of acromial process, right shoulder, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S42.124S | Nondisplaced fracture of acromial process, right shoulder, sequela   | Diagnosis     | ICD-10-CM |
| S42.125  | Nondisplaced fracture of acromial process, left shoulder   | Diagnosis     | ICD-10-CM |
| S42.125A | Nondisplaced fracture of acromial process, left shoulder, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S42.125B | Nondisplaced fracture of acromial process, left shoulder, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S42.125D | Nondisplaced fracture of acromial process, left shoulder, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S42.125G | Nondisplaced fracture of acromial process, left shoulder, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S42.125K | Nondisplaced fracture of acromial process, left shoulder, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S42.125P | Nondisplaced fracture of acromial process, left shoulder, subsequent encounter for fracture with malunion            | Diagnosis     | ICD-10-CM |
| S42.125S | Nondisplaced fracture of acromial process, left shoulder, sequela  | Diagnosis     | ICD-10-CM |
| S42.126  | Nondisplaced fracture of acromial process, unspecified shoulder  | Diagnosis     | ICD-10-CM |
| S42.126A | Nondisplaced fracture of acromial process, unspecified shoulder, initial encounter for closed fracture               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S42.126B | Nondisplaced fracture of acromial process, unspecified shoulder, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.126D | Nondisplaced fracture of acromial process, unspecified shoulder, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.126G | Nondisplaced fracture of acromial process, unspecified shoulder, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.126K | Nondisplaced fracture of acromial process, unspecified shoulder, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.126P | Nondisplaced fracture of acromial process, unspecified shoulder, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.126S | Nondisplaced fracture of acromial process, unspecified shoulder, sequela  | Diagnosis     | ICD-10-CM |
| S42.13   | Fracture of coracoid process  | Diagnosis     | ICD-10-CM |
| S42.131  | Displaced fracture of coracoid process, right shoulder  | Diagnosis     | ICD-10-CM |
| S42.131A | Displaced fracture of coracoid process, right shoulder, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S42.131B | Displaced fracture of coracoid process, right shoulder, initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |
| S42.131D | Displaced fracture of coracoid process, right shoulder, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S42.131G | Displaced fracture of coracoid process, right shoulder, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S42.131K | Displaced fracture of coracoid process, right shoulder, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S42.131P | Displaced fracture of coracoid process, right shoulder, subsequent encounter for fracture with malunion                 | Diagnosis     | ICD-10-CM |
| S42.131S | Displaced fracture of coracoid process, right shoulder, sequela   | Diagnosis     | ICD-10-CM |
| S42.132  | Displaced fracture of coracoid process, left shoulder   | Diagnosis     | ICD-10-CM |
| S42.132A | Displaced fracture of coracoid process, left shoulder, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S42.132B | Displaced fracture of coracoid process, left shoulder, initial encounter for open fracture                              | Diagnosis     | ICD-10-CM |
| S42.132D | Displaced fracture of coracoid process, left shoulder, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S42.132G | Displaced fracture of coracoid process, left shoulder, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S42.132K | Displaced fracture of coracoid process, left shoulder, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S42.132P | Displaced fracture of coracoid process, left shoulder, subsequent encounter for fracture with malunion                  | Diagnosis     | ICD-10-CM |
| S42.132S | Displaced fracture of coracoid process, left shoulder, sequela  | Diagnosis     | ICD-10-CM |
| S42.133  | Displaced fracture of coracoid process, unspecified shoulder  | Diagnosis     | ICD-10-CM |
| S42.133A | Displaced fracture of coracoid process, unspecified shoulder, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S42.133B | Displaced fracture of coracoid process, unspecified shoulder, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S42.133D | Displaced fracture of coracoid process, unspecified shoulder, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S42.133G | Displaced fracture of coracoid process, unspecified shoulder, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S42.133K | Displaced fracture of coracoid process, unspecified shoulder, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S42.133P | Displaced fracture of coracoid process, unspecified shoulder, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S42.133S | Displaced fracture of coracoid process, unspecified shoulder, sequela   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S42.134  | Nondisplaced fracture of coracoid process, right shoulder   | Diagnosis     | ICD-10-CM |
| S42.134A | Nondisplaced fracture of coracoid process, right shoulder, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S42.134B | Nondisplaced fracture of coracoid process, right shoulder, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S42.134D | Nondisplaced fracture of coracoid process, right shoulder, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S42.134G | Nondisplaced fracture of coracoid process, right shoulder, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S42.134K | Nondisplaced fracture of coracoid process, right shoulder, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S42.134P | Nondisplaced fracture of coracoid process, right shoulder, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S42.134S | Nondisplaced fracture of coracoid process, right shoulder, sequela  | Diagnosis     | ICD-10-CM |
| S42.135  | Nondisplaced fracture of coracoid process, left shoulder  | Diagnosis     | ICD-10-CM |
| S42.135A | Nondisplaced fracture of coracoid process, left shoulder, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.135B | Nondisplaced fracture of coracoid process, left shoulder, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.135D | Nondisplaced fracture of coracoid process, left shoulder, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.135G | Nondisplaced fracture of coracoid process, left shoulder, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.135K | Nondisplaced fracture of coracoid process, left shoulder, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.135P | Nondisplaced fracture of coracoid process, left shoulder, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.135S | Nondisplaced fracture of coracoid process, left shoulder, sequela   | Diagnosis     | ICD-10-CM |
| S42.136  | Nondisplaced fracture of coracoid process, unspecified shoulder   | Diagnosis     | ICD-10-CM |
| S42.136A | Nondisplaced fracture of coracoid process, unspecified shoulder, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.136B | Nondisplaced fracture of coracoid process, unspecified shoulder, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.136D | Nondisplaced fracture of coracoid process, unspecified shoulder, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.136G | Nondisplaced fracture of coracoid process, unspecified shoulder, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.136K | Nondisplaced fracture of coracoid process, unspecified shoulder, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.136P | Nondisplaced fracture of coracoid process, unspecified shoulder, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.136S | Nondisplaced fracture of coracoid process, unspecified shoulder, sequela  | Diagnosis     | ICD-10-CM |
| S42.14   | Fracture of glenoid cavity of scapula   | Diagnosis     | ICD-10-CM |
| S42.141  | Displaced fracture of glenoid cavity of scapula, right shoulder   | Diagnosis     | ICD-10-CM |
| S42.141A | Displaced fracture of glenoid cavity of scapula, right shoulder, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.141B | Displaced fracture of glenoid cavity of scapula, right shoulder, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.141D | Displaced fracture of glenoid cavity of scapula, right shoulder, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S42.141G | Displaced fracture of glenoid cavity of scapula, right shoulder, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S42.141K | Displaced fracture of glenoid cavity of scapula, right shoulder, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S42.141P | Displaced fracture of glenoid cavity of scapula, right shoulder, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S42.141S | Displaced fracture of glenoid cavity of scapula, right shoulder, sequela  | Diagnosis     | ICD-10-CM |
| S42.142  | Displaced fracture of glenoid cavity of scapula, left shoulder  | Diagnosis     | ICD-10-CM |
| S42.142A | Displaced fracture of glenoid cavity of scapula, left shoulder, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.142B | Displaced fracture of glenoid cavity of scapula, left shoulder, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.142D | Displaced fracture of glenoid cavity of scapula, left shoulder, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.142G | Displaced fracture of glenoid cavity of scapula, left shoulder, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.142K | Displaced fracture of glenoid cavity of scapula, left shoulder, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.142P | Displaced fracture of glenoid cavity of scapula, left shoulder, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.142S | Displaced fracture of glenoid cavity of scapula, left shoulder, sequela   | Diagnosis     | ICD-10-CM |
| S42.143  | Displaced fracture of glenoid cavity of scapula, unspecified shoulder   | Diagnosis     | ICD-10-CM |
| S42.143A | Displaced fracture of glenoid cavity of scapula, unspecified shoulder, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.143B | Displaced fracture of glenoid cavity of scapula, unspecified shoulder, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.143D | Displaced fracture of glenoid cavity of scapula, unspecified shoulder, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.143G | Displaced fracture of glenoid cavity of scapula, unspecified shoulder, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.143K | Displaced fracture of glenoid cavity of scapula, unspecified shoulder, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.143P | Displaced fracture of glenoid cavity of scapula, unspecified shoulder, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.143S | Displaced fracture of glenoid cavity of scapula, unspecified shoulder, sequela  | Diagnosis     | ICD-10-CM |
| S42.144  | Nondisplaced fracture of glenoid cavity of scapula, right shoulder  | Diagnosis     | ICD-10-CM |
| S42.144A | Nondisplaced fracture of glenoid cavity of scapula, right shoulder, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S42.144B | Nondisplaced fracture of glenoid cavity of scapula, right shoulder, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S42.144D | Nondisplaced fracture of glenoid cavity of scapula, right shoulder, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S42.144G | Nondisplaced fracture of glenoid cavity of scapula, right shoulder, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S42.144K | Nondisplaced fracture of glenoid cavity of scapula, right shoulder, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S42.144P | Nondisplaced fracture of glenoid cavity of scapula, right shoulder, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S42.144S | Nondisplaced fracture of glenoid cavity of scapula, right shoulder, sequela   | Diagnosis     | ICD-10-CM |
| S42.145  | Nondisplaced fracture of glenoid cavity of scapula, left shoulder   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.145A | Nondisplaced fracture of glenoid cavity of scapula, left shoulder, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.145B | Nondisplaced fracture of glenoid cavity of scapula, left shoulder, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.145D | Nondisplaced fracture of glenoid cavity of scapula, left shoulder, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.145G | Nondisplaced fracture of glenoid cavity of scapula, left shoulder, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.145K | Nondisplaced fracture of glenoid cavity of scapula, left shoulder, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.145P | Nondisplaced fracture of glenoid cavity of scapula, left shoulder, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.145S | Nondisplaced fracture of glenoid cavity of scapula, left shoulder, sequela   | Diagnosis     | ICD-10-CM |
| S42.146  | Nondisplaced fracture of glenoid cavity of scapula, unspecified shoulder   | Diagnosis     | ICD-10-CM |
| S42.146A | Nondisplaced fracture of glenoid cavity of scapula, unspecified shoulder, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.146B | Nondisplaced fracture of glenoid cavity of scapula, unspecified shoulder, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.146D | Nondisplaced fracture of glenoid cavity of scapula, unspecified shoulder, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.146G | Nondisplaced fracture of glenoid cavity of scapula, unspecified shoulder, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.146K | Nondisplaced fracture of glenoid cavity of scapula, unspecified shoulder, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.146P | Nondisplaced fracture of glenoid cavity of scapula, unspecified shoulder, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.146S | Nondisplaced fracture of glenoid cavity of scapula, unspecified shoulder, sequela  | Diagnosis     | ICD-10-CM |
| S42.15   | Fracture of neck of scapula  | Diagnosis     | ICD-10-CM |
| S42.151  | Displaced fracture of neck of scapula, right shoulder  | Diagnosis     | ICD-10-CM |
| S42.151A | Displaced fracture of neck of scapula, right shoulder, initial encounter for closed fracture                                     | Diagnosis     | ICD-10-CM |
| S42.151B | Displaced fracture of neck of scapula, right shoulder, initial encounter for open fracture                                       | Diagnosis     | ICD-10-CM |
| S42.151D | Displaced fracture of neck of scapula, right shoulder, subsequent encounter for fracture with routine healing                    | Diagnosis     | ICD-10-CM |
| S42.151G | Displaced fracture of neck of scapula, right shoulder, subsequent encounter for fracture with delayed healing                    | Diagnosis     | ICD-10-CM |
| S42.151K | Displaced fracture of neck of scapula, right shoulder, subsequent encounter for fracture with nonunion                           | Diagnosis     | ICD-10-CM |
| S42.151P | Displaced fracture of neck of scapula, right shoulder, subsequent encounter for fracture with malunion                           | Diagnosis     | ICD-10-CM |
| S42.151S | Displaced fracture of neck of scapula, right shoulder, sequela   | Diagnosis     | ICD-10-CM |
| S42.152  | Displaced fracture of neck of scapula, left shoulder   | Diagnosis     | ICD-10-CM |
| S42.152A | Displaced fracture of neck of scapula, left shoulder, initial encounter for closed fracture                                      | Diagnosis     | ICD-10-CM |
| S42.152B | Displaced fracture of neck of scapula, left shoulder, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S42.152D | Displaced fracture of neck of scapula, left shoulder, subsequent encounter for fracture with routine healing                     | Diagnosis     | ICD-10-CM |
| S42.152G | Displaced fracture of neck of scapula, left shoulder, subsequent encounter for fracture with delayed healing                     | Diagnosis     | ICD-10-CM |
| S42.152K | Displaced fracture of neck of scapula, left shoulder, subsequent encounter for fracture with nonunion                            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.152P | Displaced fracture of neck of scapula, left shoulder, subsequent encounter for fracture with malunion                  | Diagnosis     | ICD-10-CM |
| S42.152S | Displaced fracture of neck of scapula, left shoulder, sequela  | Diagnosis     | ICD-10-CM |
| S42.153  | Displaced fracture of neck of scapula, unspecified shoulder  | Diagnosis     | ICD-10-CM |
| S42.153A | Displaced fracture of neck of scapula, unspecified shoulder, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S42.153B | Displaced fracture of neck of scapula, unspecified shoulder, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S42.153D | Displaced fracture of neck of scapula, unspecified shoulder, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S42.153G | Displaced fracture of neck of scapula, unspecified shoulder, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S42.153K | Displaced fracture of neck of scapula, unspecified shoulder, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S42.153P | Displaced fracture of neck of scapula, unspecified shoulder, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S42.153S | Displaced fracture of neck of scapula, unspecified shoulder, sequela   | Diagnosis     | ICD-10-CM |
| S42.154  | Nondisplaced fracture of neck of scapula, right shoulder   | Diagnosis     | ICD-10-CM |
| S42.154A | Nondisplaced fracture of neck of scapula, right shoulder, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S42.154B | Nondisplaced fracture of neck of scapula, right shoulder, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S42.154D | Nondisplaced fracture of neck of scapula, right shoulder, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S42.154G | Nondisplaced fracture of neck of scapula, right shoulder, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S42.154K | Nondisplaced fracture of neck of scapula, right shoulder, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S42.154P | Nondisplaced fracture of neck of scapula, right shoulder, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S42.154S | Nondisplaced fracture of neck of scapula, right shoulder, sequela  | Diagnosis     | ICD-10-CM |
| S42.155  | Nondisplaced fracture of neck of scapula, left shoulder  | Diagnosis     | ICD-10-CM |
| S42.155A | Nondisplaced fracture of neck of scapula, left shoulder, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.155B | Nondisplaced fracture of neck of scapula, left shoulder, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.155D | Nondisplaced fracture of neck of scapula, left shoulder, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.155G | Nondisplaced fracture of neck of scapula, left shoulder, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.155K | Nondisplaced fracture of neck of scapula, left shoulder, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.155P | Nondisplaced fracture of neck of scapula, left shoulder, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.155S | Nondisplaced fracture of neck of scapula, left shoulder, sequela   | Diagnosis     | ICD-10-CM |
| S42.156  | Nondisplaced fracture of neck of scapula, unspecified shoulder   | Diagnosis     | ICD-10-CM |
| S42.156A | Nondisplaced fracture of neck of scapula, unspecified shoulder, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.156B | Nondisplaced fracture of neck of scapula, unspecified shoulder, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.156D | Nondisplaced fracture of neck of scapula, unspecified shoulder, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.156G | Nondisplaced fracture of neck of scapula, unspecified shoulder, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.156K | Nondisplaced fracture of neck of scapula, unspecified shoulder, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.156P | Nondisplaced fracture of neck of scapula, unspecified shoulder, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.156S | Nondisplaced fracture of neck of scapula, unspecified shoulder, sequela  | Diagnosis     | ICD-10-CM |
| S42.19   | Fracture of other part of scapula  | Diagnosis     | ICD-10-CM |
| S42.191  | Fracture of other part of scapula, right shoulder  | Diagnosis     | ICD-10-CM |
| S42.191A | Fracture of other part of scapula, right shoulder, initial encounter for closed fracture                               | Diagnosis     | ICD-10-CM |
| S42.191B | Fracture of other part of scapula, right shoulder, initial encounter for open fracture                                 | Diagnosis     | ICD-10-CM |
| S42.191D | Fracture of other part of scapula, right shoulder, subsequent encounter for fracture with routine healing              | Diagnosis     | ICD-10-CM |
| S42.191G | Fracture of other part of scapula, right shoulder, subsequent encounter for fracture with delayed healing              | Diagnosis     | ICD-10-CM |
| S42.191K | Fracture of other part of scapula, right shoulder, subsequent encounter for fracture with nonunion                     | Diagnosis     | ICD-10-CM |
| S42.191P | Fracture of other part of scapula, right shoulder, subsequent encounter for fracture with malunion                     | Diagnosis     | ICD-10-CM |
| S42.191S | Fracture of other part of scapula, right shoulder, sequela   | Diagnosis     | ICD-10-CM |
| S42.192  | Fracture of other part of scapula, left shoulder   | Diagnosis     | ICD-10-CM |
| S42.192A | Fracture of other part of scapula, left shoulder, initial encounter for closed fracture                                | Diagnosis     | ICD-10-CM |
| S42.192B | Fracture of other part of scapula, left shoulder, initial encounter for open fracture                                  | Diagnosis     | ICD-10-CM |
| S42.192D | Fracture of other part of scapula, left shoulder, subsequent encounter for fracture with routine healing               | Diagnosis     | ICD-10-CM |
| S42.192G | Fracture of other part of scapula, left shoulder, subsequent encounter for fracture with delayed healing               | Diagnosis     | ICD-10-CM |
| S42.192K | Fracture of other part of scapula, left shoulder, subsequent encounter for fracture with nonunion                      | Diagnosis     | ICD-10-CM |
| S42.192P | Fracture of other part of scapula, left shoulder, subsequent encounter for fracture with malunion                      | Diagnosis     | ICD-10-CM |
| S42.192S | Fracture of other part of scapula, left shoulder, sequela  | Diagnosis     | ICD-10-CM |
| S42.199  | Fracture of other part of scapula, unspecified shoulder  | Diagnosis     | ICD-10-CM |
| S42.199A | Fracture of other part of scapula, unspecified shoulder, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.199B | Fracture of other part of scapula, unspecified shoulder, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.199D | Fracture of other part of scapula, unspecified shoulder, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.199G | Fracture of other part of scapula, unspecified shoulder, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.199K | Fracture of other part of scapula, unspecified shoulder, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.199P | Fracture of other part of scapula, unspecified shoulder, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.199S | Fracture of other part of scapula, unspecified shoulder, sequela   | Diagnosis     | ICD-10-CM |
| S42.2    | Fracture of upper end of humerus   | Diagnosis     | ICD-10-CM |
| S42.20   | Unspecified fracture of upper end of humerus   | Diagnosis     | ICD-10-CM |
| S42.201  | Unspecified fracture of upper end of right humerus   | Diagnosis     | ICD-10-CM |
| S42.201A | Unspecified fracture of upper end of right humerus, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S42.201B | Unspecified fracture of upper end of right humerus, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.201D | Unspecified fracture of upper end of right humerus, subsequent encounter for fracture with routine healing               | Diagnosis     | ICD-10-CM |
| S42.201G | Unspecified fracture of upper end of right humerus, subsequent encounter for fracture with delayed healing               | Diagnosis     | ICD-10-CM |
| S42.201K | Unspecified fracture of upper end of right humerus, subsequent encounter for fracture with nonunion                      | Diagnosis     | ICD-10-CM |
| S42.201P | Unspecified fracture of upper end of right humerus, subsequent encounter for fracture with malunion                      | Diagnosis     | ICD-10-CM |
| S42.201S | Unspecified fracture of upper end of right humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.202  | Unspecified fracture of upper end of left humerus  | Diagnosis     | ICD-10-CM |
| S42.202A | Unspecified fracture of upper end of left humerus, initial encounter for closed fracture                                 | Diagnosis     | ICD-10-CM |
| S42.202B | Unspecified fracture of upper end of left humerus, initial encounter for open fracture                                   | Diagnosis     | ICD-10-CM |
| S42.202D | Unspecified fracture of upper end of left humerus, subsequent encounter for fracture with routine healing                | Diagnosis     | ICD-10-CM |
| S42.202G | Unspecified fracture of upper end of left humerus, subsequent encounter for fracture with delayed healing                | Diagnosis     | ICD-10-CM |
| S42.202K | Unspecified fracture of upper end of left humerus, subsequent encounter for fracture with nonunion                       | Diagnosis     | ICD-10-CM |
| S42.202P | Unspecified fracture of upper end of left humerus, subsequent encounter for fracture with malunion                       | Diagnosis     | ICD-10-CM |
| S42.202S | Unspecified fracture of upper end of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.209  | Unspecified fracture of upper end of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.209A | Unspecified fracture of upper end of unspecified humerus, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S42.209B | Unspecified fracture of upper end of unspecified humerus, initial encounter for open fracture                            | Diagnosis     | ICD-10-CM |
| S42.209D | Unspecified fracture of upper end of unspecified humerus, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S42.209G | Unspecified fracture of upper end of unspecified humerus, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S42.209K | Unspecified fracture of upper end of unspecified humerus, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S42.209P | Unspecified fracture of upper end of unspecified humerus, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S42.209S | Unspecified fracture of upper end of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.21   | Unspecified fracture of surgical neck of humerus   | Diagnosis     | ICD-10-CM |
| S42.211  | Unspecified displaced fracture of surgical neck of right humerus   | Diagnosis     | ICD-10-CM |
| S42.211A | Unspecified displaced fracture of surgical neck of right humerus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.211B | Unspecified displaced fracture of surgical neck of right humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.211D | Unspecified displaced fracture of surgical neck of right humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.211G | Unspecified displaced fracture of surgical neck of right humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.211K | Unspecified displaced fracture of surgical neck of right humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.211P | Unspecified displaced fracture of surgical neck of right humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.211S | Unspecified displaced fracture of surgical neck of right humerus, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.212  | Unspecified displaced fracture of surgical neck of left humerus  | Diagnosis     | ICD-10-CM |
| S42.212A | Unspecified displaced fracture of surgical neck of left humerus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.212B | Unspecified displaced fracture of surgical neck of left humerus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.212D | Unspecified displaced fracture of surgical neck of left humerus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.212G | Unspecified displaced fracture of surgical neck of left humerus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.212K | Unspecified displaced fracture of surgical neck of left humerus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.212P | Unspecified displaced fracture of surgical neck of left humerus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.212S | Unspecified displaced fracture of surgical neck of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.213  | Unspecified displaced fracture of surgical neck of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.213A | Unspecified displaced fracture of surgical neck of unspecified humerus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.213B | Unspecified displaced fracture of surgical neck of unspecified humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.213D | Unspecified displaced fracture of surgical neck of unspecified humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.213G | Unspecified displaced fracture of surgical neck of unspecified humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.213K | Unspecified displaced fracture of surgical neck of unspecified humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.213P | Unspecified displaced fracture of surgical neck of unspecified humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.213S | Unspecified displaced fracture of surgical neck of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.214  | Unspecified nondisplaced fracture of surgical neck of right humerus  | Diagnosis     | ICD-10-CM |
| S42.214A | Unspecified nondisplaced fracture of surgical neck of right humerus, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S42.214B | Unspecified nondisplaced fracture of surgical neck of right humerus, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S42.214D | Unspecified nondisplaced fracture of surgical neck of right humerus, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S42.214G | Unspecified nondisplaced fracture of surgical neck of right humerus, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S42.214K | Unspecified nondisplaced fracture of surgical neck of right humerus, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S42.214P | Unspecified nondisplaced fracture of surgical neck of right humerus, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S42.214S | Unspecified nondisplaced fracture of surgical neck of right humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.215  | Unspecified nondisplaced fracture of surgical neck of left humerus   | Diagnosis     | ICD-10-CM |
| S42.215A | Unspecified nondisplaced fracture of surgical neck of left humerus, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S42.215B | Unspecified nondisplaced fracture of surgical neck of left humerus, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S42.215D | Unspecified nondisplaced fracture of surgical neck of left humerus, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S42.215G | Unspecified nondisplaced fracture of surgical neck of left humerus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.215K | Unspecified nondisplaced fracture of surgical neck of left humerus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.215P | Unspecified nondisplaced fracture of surgical neck of left humerus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.215S | Unspecified nondisplaced fracture of surgical neck of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.216  | Unspecified nondisplaced fracture of surgical neck of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.216A | Unspecified nondisplaced fracture of surgical neck of unspecified humerus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.216B | Unspecified nondisplaced fracture of surgical neck of unspecified humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.216D | Unspecified nondisplaced fracture of surgical neck of unspecified humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.216G | Unspecified nondisplaced fracture of surgical neck of unspecified humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.216K | Unspecified nondisplaced fracture of surgical neck of unspecified humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.216P | Unspecified nondisplaced fracture of surgical neck of unspecified humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.216S | Unspecified nondisplaced fracture of surgical neck of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.22   | 2-part fracture of surgical neck of humerus   | Diagnosis     | ICD-10-CM |
| S42.221  | 2-part displaced fracture of surgical neck of right humerus   | Diagnosis     | ICD-10-CM |
| S42.221A | 2-part displaced fracture of surgical neck of right humerus, initial encounter for closed fracture                                | Diagnosis     | ICD-10-CM |
| S42.221B | 2-part displaced fracture of surgical neck of right humerus, initial encounter for open fracture                                  | Diagnosis     | ICD-10-CM |
| S42.221D | 2-part displaced fracture of surgical neck of right humerus, subsequent encounter for fracture with routine healing               | Diagnosis     | ICD-10-CM |
| S42.221G | 2-part displaced fracture of surgical neck of right humerus, subsequent encounter for fracture with delayed healing               | Diagnosis     | ICD-10-CM |
| S42.221K | 2-part displaced fracture of surgical neck of right humerus, subsequent encounter for fracture with nonunion                      | Diagnosis     | ICD-10-CM |
| S42.221P | 2-part displaced fracture of surgical neck of right humerus, subsequent encounter for fracture with malunion                      | Diagnosis     | ICD-10-CM |
| S42.221S | 2-part displaced fracture of surgical neck of right humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.222  | 2-part displaced fracture of surgical neck of left humerus  | Diagnosis     | ICD-10-CM |
| S42.222A | 2-part displaced fracture of surgical neck of left humerus, initial encounter for closed fracture                                 | Diagnosis     | ICD-10-CM |
| S42.222B | 2-part displaced fracture of surgical neck of left humerus, initial encounter for open fracture                                   | Diagnosis     | ICD-10-CM |
| S42.222D | 2-part displaced fracture of surgical neck of left humerus, subsequent encounter for fracture with routine healing                | Diagnosis     | ICD-10-CM |
| S42.222G | 2-part displaced fracture of surgical neck of left humerus, subsequent encounter for fracture with delayed healing                | Diagnosis     | ICD-10-CM |
| S42.222K | 2-part displaced fracture of surgical neck of left humerus, subsequent encounter for fracture with nonunion                       | Diagnosis     | ICD-10-CM |
| S42.222P | 2-part displaced fracture of surgical neck of left humerus, subsequent encounter for fracture with malunion                       | Diagnosis     | ICD-10-CM |
| S42.222S | 2-part displaced fracture of surgical neck of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.223  | 2-part displaced fracture of surgical neck of unspecified humerus   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.223A | 2-part displaced fracture of surgical neck of unspecified humerus, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S42.223B | 2-part displaced fracture of surgical neck of unspecified humerus, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S42.223D | 2-part displaced fracture of surgical neck of unspecified humerus, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S42.223G | 2-part displaced fracture of surgical neck of unspecified humerus, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S42.223K | 2-part displaced fracture of surgical neck of unspecified humerus, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S42.223P | 2-part displaced fracture of surgical neck of unspecified humerus, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S42.223S | 2-part displaced fracture of surgical neck of unspecified humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.224  | 2-part nondisplaced fracture of surgical neck of right humerus   | Diagnosis     | ICD-10-CM |
| S42.224A | 2-part nondisplaced fracture of surgical neck of right humerus, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S42.224B | 2-part nondisplaced fracture of surgical neck of right humerus, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S42.224D | 2-part nondisplaced fracture of surgical neck of right humerus, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S42.224G | 2-part nondisplaced fracture of surgical neck of right humerus, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S42.224K | 2-part nondisplaced fracture of surgical neck of right humerus, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S42.224P | 2-part nondisplaced fracture of surgical neck of right humerus, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S42.224S | 2-part nondisplaced fracture of surgical neck of right humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.225  | 2-part nondisplaced fracture of surgical neck of left humerus  | Diagnosis     | ICD-10-CM |
| S42.225A | 2-part nondisplaced fracture of surgical neck of left humerus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.225B | 2-part nondisplaced fracture of surgical neck of left humerus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.225D | 2-part nondisplaced fracture of surgical neck of left humerus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.225G | 2-part nondisplaced fracture of surgical neck of left humerus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.225K | 2-part nondisplaced fracture of surgical neck of left humerus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.225P | 2-part nondisplaced fracture of surgical neck of left humerus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.225S | 2-part nondisplaced fracture of surgical neck of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.226  | 2-part nondisplaced fracture of surgical neck of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.226A | 2-part nondisplaced fracture of surgical neck of unspecified humerus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.226B | 2-part nondisplaced fracture of surgical neck of unspecified humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.226D | 2-part nondisplaced fracture of surgical neck of unspecified humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.226G | 2-part nondisplaced fracture of surgical neck of unspecified humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S42.226K | 2-part nondisplaced fracture of surgical neck of unspecified humerus, subsequent encounter for fracture with nonunion | Diagnosis     | ICD-10-CM |
| S42.226P | 2-part nondisplaced fracture of surgical neck of unspecified humerus, subsequent encounter for fracture with malunion | Diagnosis     | ICD-10-CM |
| S42.226S | 2-part nondisplaced fracture of surgical neck of unspecified humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.23   | 3-part fracture of surgical neck of humerus   | Diagnosis     | ICD-10-CM |
| S42.231  | 3-part fracture of surgical neck of right humerus   | Diagnosis     | ICD-10-CM |
| S42.231A | 3-part fracture of surgical neck of right humerus, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S42.231B | 3-part fracture of surgical neck of right humerus, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S42.231D | 3-part fracture of surgical neck of right humerus, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S42.231G | 3-part fracture of surgical neck of right humerus, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S42.231K | 3-part fracture of surgical neck of right humerus, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S42.231P | 3-part fracture of surgical neck of right humerus, subsequent encounter for fracture with malunion                    | Diagnosis     | ICD-10-CM |
| S42.231S | 3-part fracture of surgical neck of right humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.232  | 3-part fracture of surgical neck of left humerus  | Diagnosis     | ICD-10-CM |
| S42.232A | 3-part fracture of surgical neck of left humerus, initial encounter for closed fracture                               | Diagnosis     | ICD-10-CM |
| S42.232B | 3-part fracture of surgical neck of left humerus, initial encounter for open fracture                                 | Diagnosis     | ICD-10-CM |
| S42.232D | 3-part fracture of surgical neck of left humerus, subsequent encounter for fracture with routine healing              | Diagnosis     | ICD-10-CM |
| S42.232G | 3-part fracture of surgical neck of left humerus, subsequent encounter for fracture with delayed healing              | Diagnosis     | ICD-10-CM |
| S42.232K | 3-part fracture of surgical neck of left humerus, subsequent encounter for fracture with nonunion                     | Diagnosis     | ICD-10-CM |
| S42.232P | 3-part fracture of surgical neck of left humerus, subsequent encounter for fracture with malunion                     | Diagnosis     | ICD-10-CM |
| S42.232S | 3-part fracture of surgical neck of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.239  | 3-part fracture of surgical neck of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.239A | 3-part fracture of surgical neck of unspecified humerus, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S42.239B | 3-part fracture of surgical neck of unspecified humerus, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S42.239D | 3-part fracture of surgical neck of unspecified humerus, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S42.239G | 3-part fracture of surgical neck of unspecified humerus, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S42.239K | 3-part fracture of surgical neck of unspecified humerus, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S42.239P | 3-part fracture of surgical neck of unspecified humerus, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S42.239S | 3-part fracture of surgical neck of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.24   | 4-part fracture of surgical neck of humerus   | Diagnosis     | ICD-10-CM |
| S42.241  | 4-part fracture of surgical neck of right humerus   | Diagnosis     | ICD-10-CM |
| S42.241A | 4-part fracture of surgical neck of right humerus, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S42.241B | 4-part fracture of surgical neck of right humerus, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S42.241D | 4-part fracture of surgical neck of right humerus, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S42.241G | 4-part fracture of surgical neck of right humerus, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S42.241K | 4-part fracture of surgical neck of right humerus, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S42.241P | 4-part fracture of surgical neck of right humerus, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S42.241S | 4-part fracture of surgical neck of right humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.242  | 4-part fracture of surgical neck of left humerus  | Diagnosis     | ICD-10-CM |
| S42.242A | 4-part fracture of surgical neck of left humerus, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S42.242B | 4-part fracture of surgical neck of left humerus, initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |
| S42.242D | 4-part fracture of surgical neck of left humerus, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S42.242G | 4-part fracture of surgical neck of left humerus, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S42.242K | 4-part fracture of surgical neck of left humerus, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S42.242P | 4-part fracture of surgical neck of left humerus, subsequent encounter for fracture with malunion                 | Diagnosis     | ICD-10-CM |
| S42.242S | 4-part fracture of surgical neck of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.249  | 4-part fracture of surgical neck of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.249A | 4-part fracture of surgical neck of unspecified humerus, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S42.249B | 4-part fracture of surgical neck of unspecified humerus, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S42.249D | 4-part fracture of surgical neck of unspecified humerus, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S42.249G | 4-part fracture of surgical neck of unspecified humerus, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S42.249K | 4-part fracture of surgical neck of unspecified humerus, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S42.249P | 4-part fracture of surgical neck of unspecified humerus, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |
| S42.249S | 4-part fracture of surgical neck of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.25   | Fracture of greater tuberosity of humerus   | Diagnosis     | ICD-10-CM |
| S42.251  | Displaced fracture of greater tuberosity of right humerus   | Diagnosis     | ICD-10-CM |
| S42.251A | Displaced fracture of greater tuberosity of right humerus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.251B | Displaced fracture of greater tuberosity of right humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.251D | Displaced fracture of greater tuberosity of right humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.251G | Displaced fracture of greater tuberosity of right humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.251K | Displaced fracture of greater tuberosity of right humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.251P | Displaced fracture of greater tuberosity of right humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.251S | Displaced fracture of greater tuberosity of right humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.252  | Displaced fracture of greater tuberosity of left humerus  | Diagnosis     | ICD-10-CM |
| S42.252A | Displaced fracture of greater tuberosity of left humerus, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S42.252B | Displaced fracture of greater tuberosity of left humerus, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S42.252D | Displaced fracture of greater tuberosity of left humerus, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S42.252G | Displaced fracture of greater tuberosity of left humerus, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S42.252K | Displaced fracture of greater tuberosity of left humerus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.252P | Displaced fracture of greater tuberosity of left humerus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.252S | Displaced fracture of greater tuberosity of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.253  | Displaced fracture of greater tuberosity of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.253A | Displaced fracture of greater tuberosity of unspecified humerus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.253B | Displaced fracture of greater tuberosity of unspecified humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.253D | Displaced fracture of greater tuberosity of unspecified humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.253G | Displaced fracture of greater tuberosity of unspecified humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.253K | Displaced fracture of greater tuberosity of unspecified humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.253P | Displaced fracture of greater tuberosity of unspecified humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.253S | Displaced fracture of greater tuberosity of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.254  | Nondisplaced fracture of greater tuberosity of right humerus  | Diagnosis     | ICD-10-CM |
| S42.254A | Nondisplaced fracture of greater tuberosity of right humerus, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S42.254B | Nondisplaced fracture of greater tuberosity of right humerus, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S42.254D | Nondisplaced fracture of greater tuberosity of right humerus, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S42.254G | Nondisplaced fracture of greater tuberosity of right humerus, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S42.254K | Nondisplaced fracture of greater tuberosity of right humerus, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S42.254P | Nondisplaced fracture of greater tuberosity of right humerus, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S42.254S | Nondisplaced fracture of greater tuberosity of right humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.255  | Nondisplaced fracture of greater tuberosity of left humerus   | Diagnosis     | ICD-10-CM |
| S42.255A | Nondisplaced fracture of greater tuberosity of left humerus, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S42.255B | Nondisplaced fracture of greater tuberosity of left humerus, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S42.255D | Nondisplaced fracture of greater tuberosity of left humerus, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S42.255G | Nondisplaced fracture of greater tuberosity of left humerus, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S42.255K | Nondisplaced fracture of greater tuberosity of left humerus, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S42.255P | Nondisplaced fracture of greater tuberosity of left humerus, subsequent encounter for fracture with malunion            | Diagnosis     | ICD-10-CM |
| S42.255S | Nondisplaced fracture of greater tuberosity of left humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.256  | Nondisplaced fracture of greater tuberosity of unspecified humerus  | Diagnosis     | ICD-10-CM |
| S42.256A | Nondisplaced fracture of greater tuberosity of unspecified humerus, initial encounter for closed fracture               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.256B | Nondisplaced fracture of greater tuberosity of unspecified humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.256D | Nondisplaced fracture of greater tuberosity of unspecified humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.256G | Nondisplaced fracture of greater tuberosity of unspecified humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.256K | Nondisplaced fracture of greater tuberosity of unspecified humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.256P | Nondisplaced fracture of greater tuberosity of unspecified humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.256S | Nondisplaced fracture of greater tuberosity of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.26   | Fracture of lesser tuberosity of humerus   | Diagnosis     | ICD-10-CM |
| S42.261  | Displaced fracture of lesser tuberosity of right humerus   | Diagnosis     | ICD-10-CM |
| S42.261A | Displaced fracture of lesser tuberosity of right humerus, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S42.261B | Displaced fracture of lesser tuberosity of right humerus, initial encounter for open fracture                              | Diagnosis     | ICD-10-CM |
| S42.261D | Displaced fracture of lesser tuberosity of right humerus, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S42.261G | Displaced fracture of lesser tuberosity of right humerus, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S42.261K | Displaced fracture of lesser tuberosity of right humerus, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S42.261P | Displaced fracture of lesser tuberosity of right humerus, subsequent encounter for fracture with malunion                  | Diagnosis     | ICD-10-CM |
| S42.261S | Displaced fracture of lesser tuberosity of right humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.262  | Displaced fracture of lesser tuberosity of left humerus  | Diagnosis     | ICD-10-CM |
| S42.262A | Displaced fracture of lesser tuberosity of left humerus, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S42.262B | Displaced fracture of lesser tuberosity of left humerus, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S42.262D | Displaced fracture of lesser tuberosity of left humerus, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S42.262G | Displaced fracture of lesser tuberosity of left humerus, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S42.262K | Displaced fracture of lesser tuberosity of left humerus, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S42.262P | Displaced fracture of lesser tuberosity of left humerus, subsequent encounter for fracture with malunion                   | Diagnosis     | ICD-10-CM |
| S42.262S | Displaced fracture of lesser tuberosity of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.263  | Displaced fracture of lesser tuberosity of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.263A | Displaced fracture of lesser tuberosity of unspecified humerus, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S42.263B | Displaced fracture of lesser tuberosity of unspecified humerus, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S42.263D | Displaced fracture of lesser tuberosity of unspecified humerus, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S42.263G | Displaced fracture of lesser tuberosity of unspecified humerus, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S42.263K | Displaced fracture of lesser tuberosity of unspecified humerus, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S42.263P | Displaced fracture of lesser tuberosity of unspecified humerus, subsequent encounter for fracture with malunion            | Diagnosis     | ICD-10-CM |
| S42.263S | Displaced fracture of lesser tuberosity of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S42.264  | Nondisplaced fracture of lesser tuberosity of right humerus   | Diagnosis     | ICD-10-CM |
| S42.264A | Nondisplaced fracture of lesser tuberosity of right humerus, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S42.264B | Nondisplaced fracture of lesser tuberosity of right humerus, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S42.264D | Nondisplaced fracture of lesser tuberosity of right humerus, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S42.264G | Nondisplaced fracture of lesser tuberosity of right humerus, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S42.264K | Nondisplaced fracture of lesser tuberosity of right humerus, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S42.264P | Nondisplaced fracture of lesser tuberosity of right humerus, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S42.264S | Nondisplaced fracture of lesser tuberosity of right humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.265  | Nondisplaced fracture of lesser tuberosity of left humerus  | Diagnosis     | ICD-10-CM |
| S42.265A | Nondisplaced fracture of lesser tuberosity of left humerus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.265B | Nondisplaced fracture of lesser tuberosity of left humerus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.265D | Nondisplaced fracture of lesser tuberosity of left humerus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.265G | Nondisplaced fracture of lesser tuberosity of left humerus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.265K | Nondisplaced fracture of lesser tuberosity of left humerus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.265P | Nondisplaced fracture of lesser tuberosity of left humerus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.265S | Nondisplaced fracture of lesser tuberosity of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.266  | Nondisplaced fracture of lesser tuberosity of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.266A | Nondisplaced fracture of lesser tuberosity of unspecified humerus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.266B | Nondisplaced fracture of lesser tuberosity of unspecified humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.266D | Nondisplaced fracture of lesser tuberosity of unspecified humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.266G | Nondisplaced fracture of lesser tuberosity of unspecified humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.266K | Nondisplaced fracture of lesser tuberosity of unspecified humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.266P | Nondisplaced fracture of lesser tuberosity of unspecified humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.266S | Nondisplaced fracture of lesser tuberosity of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.27   | Torus fracture of upper end of humerus  | Diagnosis     | ICD-10-CM |
| S42.271  | Torus fracture of upper end of right humerus  | Diagnosis     | ICD-10-CM |
| S42.271A | Torus fracture of upper end of right humerus, initial encounter for closed fracture                                       | Diagnosis     | ICD-10-CM |
| S42.271D | Torus fracture of upper end of right humerus, subsequent encounter for fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S42.271G | Torus fracture of upper end of right humerus, subsequent encounter for fracture with delayed healing                      | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.271K | Torus fracture of upper end of right humerus, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S42.271P | Torus fracture of upper end of right humerus, subsequent encounter for fracture with malunion                  | Diagnosis     | ICD-10-CM |
| S42.271S | Torus fracture of upper end of right humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.272  | Torus fracture of upper end of left humerus  | Diagnosis     | ICD-10-CM |
| S42.272A | Torus fracture of upper end of left humerus, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S42.272D | Torus fracture of upper end of left humerus, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S42.272G | Torus fracture of upper end of left humerus, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S42.272K | Torus fracture of upper end of left humerus, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S42.272P | Torus fracture of upper end of left humerus, subsequent encounter for fracture with malunion                   | Diagnosis     | ICD-10-CM |
| S42.272S | Torus fracture of upper end of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.279  | Torus fracture of upper end of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.279A | Torus fracture of upper end of unspecified humerus, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S42.279D | Torus fracture of upper end of unspecified humerus, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S42.279G | Torus fracture of upper end of unspecified humerus, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S42.279K | Torus fracture of upper end of unspecified humerus, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S42.279P | Torus fracture of upper end of unspecified humerus, subsequent encounter for fracture with malunion            | Diagnosis     | ICD-10-CM |
| S42.279S | Torus fracture of upper end of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.29   | Other fracture of upper end of humerus   | Diagnosis     | ICD-10-CM |
| S42.291  | Other displaced fracture of upper end of right humerus   | Diagnosis     | ICD-10-CM |
| S42.291A | Other displaced fracture of upper end of right humerus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.291B | Other displaced fracture of upper end of right humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.291D | Other displaced fracture of upper end of right humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.291G | Other displaced fracture of upper end of right humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.291K | Other displaced fracture of upper end of right humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.291P | Other displaced fracture of upper end of right humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.291S | Other displaced fracture of upper end of right humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.292  | Other displaced fracture of upper end of left humerus  | Diagnosis     | ICD-10-CM |
| S42.292A | Other displaced fracture of upper end of left humerus, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S42.292B | Other displaced fracture of upper end of left humerus, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S42.292D | Other displaced fracture of upper end of left humerus, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S42.292G | Other displaced fracture of upper end of left humerus, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S42.292K | Other displaced fracture of upper end of left humerus, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.292P | Other displaced fracture of upper end of left humerus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.292S | Other displaced fracture of upper end of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.293  | Other displaced fracture of upper end of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.293A | Other displaced fracture of upper end of unspecified humerus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.293B | Other displaced fracture of upper end of unspecified humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.293D | Other displaced fracture of upper end of unspecified humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.293G | Other displaced fracture of upper end of unspecified humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.293K | Other displaced fracture of upper end of unspecified humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.293P | Other displaced fracture of upper end of unspecified humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.293S | Other displaced fracture of upper end of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.294  | Other nondisplaced fracture of upper end of right humerus  | Diagnosis     | ICD-10-CM |
| S42.294A | Other nondisplaced fracture of upper end of right humerus, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S42.294B | Other nondisplaced fracture of upper end of right humerus, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S42.294D | Other nondisplaced fracture of upper end of right humerus, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S42.294G | Other nondisplaced fracture of upper end of right humerus, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S42.294K | Other nondisplaced fracture of upper end of right humerus, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S42.294P | Other nondisplaced fracture of upper end of right humerus, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S42.294S | Other nondisplaced fracture of upper end of right humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.295  | Other nondisplaced fracture of upper end of left humerus   | Diagnosis     | ICD-10-CM |
| S42.295A | Other nondisplaced fracture of upper end of left humerus, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S42.295B | Other nondisplaced fracture of upper end of left humerus, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S42.295D | Other nondisplaced fracture of upper end of left humerus, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S42.295G | Other nondisplaced fracture of upper end of left humerus, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S42.295K | Other nondisplaced fracture of upper end of left humerus, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S42.295P | Other nondisplaced fracture of upper end of left humerus, subsequent encounter for fracture with malunion            | Diagnosis     | ICD-10-CM |
| S42.295S | Other nondisplaced fracture of upper end of left humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.296  | Other nondisplaced fracture of upper end of unspecified humerus  | Diagnosis     | ICD-10-CM |
| S42.296A | Other nondisplaced fracture of upper end of unspecified humerus, initial encounter for closed fracture               | Diagnosis     | ICD-10-CM |
| S42.296B | Other nondisplaced fracture of upper end of unspecified humerus, initial encounter for open fracture                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S42.296D | Other nondisplaced fracture of upper end of unspecified humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.296G | Other nondisplaced fracture of upper end of unspecified humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.296K | Other nondisplaced fracture of upper end of unspecified humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.296P | Other nondisplaced fracture of upper end of unspecified humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.296S | Other nondisplaced fracture of upper end of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.3    | Fracture of shaft of humerus  | Diagnosis     | ICD-10-CM |
| S42.30   | Unspecified fracture of shaft of humerus  | Diagnosis     | ICD-10-CM |
| S42.301  | Unspecified fracture of shaft of humerus, right arm   | Diagnosis     | ICD-10-CM |
| S42.301A | Unspecified fracture of shaft of humerus, right arm, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S42.301B | Unspecified fracture of shaft of humerus, right arm, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S42.301D | Unspecified fracture of shaft of humerus, right arm, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S42.301G | Unspecified fracture of shaft of humerus, right arm, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S42.301K | Unspecified fracture of shaft of humerus, right arm, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S42.301P | Unspecified fracture of shaft of humerus, right arm, subsequent encounter for fracture with malunion                    | Diagnosis     | ICD-10-CM |
| S42.301S | Unspecified fracture of shaft of humerus, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S42.302  | Unspecified fracture of shaft of humerus, left arm  | Diagnosis     | ICD-10-CM |
| S42.302A | Unspecified fracture of shaft of humerus, left arm, initial encounter for closed fracture                               | Diagnosis     | ICD-10-CM |
| S42.302B | Unspecified fracture of shaft of humerus, left arm, initial encounter for open fracture                                 | Diagnosis     | ICD-10-CM |
| S42.302D | Unspecified fracture of shaft of humerus, left arm, subsequent encounter for fracture with routine healing              | Diagnosis     | ICD-10-CM |
| S42.302G | Unspecified fracture of shaft of humerus, left arm, subsequent encounter for fracture with delayed healing              | Diagnosis     | ICD-10-CM |
| S42.302K | Unspecified fracture of shaft of humerus, left arm, subsequent encounter for fracture with nonunion                     | Diagnosis     | ICD-10-CM |
| S42.302P | Unspecified fracture of shaft of humerus, left arm, subsequent encounter for fracture with malunion                     | Diagnosis     | ICD-10-CM |
| S42.302S | Unspecified fracture of shaft of humerus, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S42.309  | Unspecified fracture of shaft of humerus, unspecified arm   | Diagnosis     | ICD-10-CM |
| S42.309A | Unspecified fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S42.309B | Unspecified fracture of shaft of humerus, unspecified arm, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S42.309D | Unspecified fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S42.309G | Unspecified fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S42.309K | Unspecified fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S42.309P | Unspecified fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S42.309S | Unspecified fracture of shaft of humerus, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S42.31   | Greenstick fracture of shaft of humerus   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.311  | Greenstick fracture of shaft of humerus, right arm   | Diagnosis     | ICD-10-CM |
| S42.311A | Greenstick fracture of shaft of humerus, right arm, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S42.311D | Greenstick fracture of shaft of humerus, right arm, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S42.311G | Greenstick fracture of shaft of humerus, right arm, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S42.311K | Greenstick fracture of shaft of humerus, right arm, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S42.311P | Greenstick fracture of shaft of humerus, right arm, subsequent encounter for fracture with malunion                  | Diagnosis     | ICD-10-CM |
| S42.311S | Greenstick fracture of shaft of humerus, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S42.312  | Greenstick fracture of shaft of humerus, left arm  | Diagnosis     | ICD-10-CM |
| S42.312A | Greenstick fracture of shaft of humerus, left arm, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S42.312D | Greenstick fracture of shaft of humerus, left arm, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S42.312G | Greenstick fracture of shaft of humerus, left arm, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S42.312K | Greenstick fracture of shaft of humerus, left arm, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S42.312P | Greenstick fracture of shaft of humerus, left arm, subsequent encounter for fracture with malunion                   | Diagnosis     | ICD-10-CM |
| S42.312S | Greenstick fracture of shaft of humerus, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S42.319  | Greenstick fracture of shaft of humerus, unspecified arm   | Diagnosis     | ICD-10-CM |
| S42.319A | Greenstick fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S42.319D | Greenstick fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S42.319G | Greenstick fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S42.319K | Greenstick fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S42.319P | Greenstick fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with malunion            | Diagnosis     | ICD-10-CM |
| S42.319S | Greenstick fracture of shaft of humerus, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S42.32   | Transverse fracture of shaft of humerus  | Diagnosis     | ICD-10-CM |
| S42.321  | Displaced transverse fracture of shaft of humerus, right arm   | Diagnosis     | ICD-10-CM |
| S42.321A | Displaced transverse fracture of shaft of humerus, right arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.321B | Displaced transverse fracture of shaft of humerus, right arm, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.321D | Displaced transverse fracture of shaft of humerus, right arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.321G | Displaced transverse fracture of shaft of humerus, right arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.321K | Displaced transverse fracture of shaft of humerus, right arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.321P | Displaced transverse fracture of shaft of humerus, right arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.321S | Displaced transverse fracture of shaft of humerus, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S42.322  | Displaced transverse fracture of shaft of humerus, left arm  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.322A | Displaced transverse fracture of shaft of humerus, left arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.322B | Displaced transverse fracture of shaft of humerus, left arm, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.322D | Displaced transverse fracture of shaft of humerus, left arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.322G | Displaced transverse fracture of shaft of humerus, left arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.322K | Displaced transverse fracture of shaft of humerus, left arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.322P | Displaced transverse fracture of shaft of humerus, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.322S | Displaced transverse fracture of shaft of humerus, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S42.323  | Displaced transverse fracture of shaft of humerus, unspecified arm   | Diagnosis     | ICD-10-CM |
| S42.323A | Displaced transverse fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.323B | Displaced transverse fracture of shaft of humerus, unspecified arm, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.323D | Displaced transverse fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.323G | Displaced transverse fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.323K | Displaced transverse fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.323P | Displaced transverse fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.323S | Displaced transverse fracture of shaft of humerus, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S42.324  | Nondisplaced transverse fracture of shaft of humerus, right arm  | Diagnosis     | ICD-10-CM |
| S42.324A | Nondisplaced transverse fracture of shaft of humerus, right arm, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S42.324B | Nondisplaced transverse fracture of shaft of humerus, right arm, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S42.324D | Nondisplaced transverse fracture of shaft of humerus, right arm, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S42.324G | Nondisplaced transverse fracture of shaft of humerus, right arm, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S42.324K | Nondisplaced transverse fracture of shaft of humerus, right arm, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S42.324P | Nondisplaced transverse fracture of shaft of humerus, right arm, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S42.324S | Nondisplaced transverse fracture of shaft of humerus, right arm, sequela   | Diagnosis     | ICD-10-CM |
| S42.325  | Nondisplaced transverse fracture of shaft of humerus, left arm   | Diagnosis     | ICD-10-CM |
| S42.325A | Nondisplaced transverse fracture of shaft of humerus, left arm, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S42.325B | Nondisplaced transverse fracture of shaft of humerus, left arm, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S42.325D | Nondisplaced transverse fracture of shaft of humerus, left arm, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S42.325G | Nondisplaced transverse fracture of shaft of humerus, left arm, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S42.325K | Nondisplaced transverse fracture of shaft of humerus, left arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.325P | Nondisplaced transverse fracture of shaft of humerus, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.325S | Nondisplaced transverse fracture of shaft of humerus, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S42.326  | Nondisplaced transverse fracture of shaft of humerus, unspecified arm   | Diagnosis     | ICD-10-CM |
| S42.326A | Nondisplaced transverse fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.326B | Nondisplaced transverse fracture of shaft of humerus, unspecified arm, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.326D | Nondisplaced transverse fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.326G | Nondisplaced transverse fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.326K | Nondisplaced transverse fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.326P | Nondisplaced transverse fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.326S | Nondisplaced transverse fracture of shaft of humerus, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S42.33   | Oblique fracture of shaft of humerus  | Diagnosis     | ICD-10-CM |
| S42.331  | Displaced oblique fracture of shaft of humerus, right arm   | Diagnosis     | ICD-10-CM |
| S42.331A | Displaced oblique fracture of shaft of humerus, right arm, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S42.331B | Displaced oblique fracture of shaft of humerus, right arm, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S42.331D | Displaced oblique fracture of shaft of humerus, right arm, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S42.331G | Displaced oblique fracture of shaft of humerus, right arm, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S42.331K | Displaced oblique fracture of shaft of humerus, right arm, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S42.331P | Displaced oblique fracture of shaft of humerus, right arm, subsequent encounter for fracture with malunion                    | Diagnosis     | ICD-10-CM |
| S42.331S | Displaced oblique fracture of shaft of humerus, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S42.332  | Displaced oblique fracture of shaft of humerus, left arm  | Diagnosis     | ICD-10-CM |
| S42.332A | Displaced oblique fracture of shaft of humerus, left arm, initial encounter for closed fracture                               | Diagnosis     | ICD-10-CM |
| S42.332B | Displaced oblique fracture of shaft of humerus, left arm, initial encounter for open fracture                                 | Diagnosis     | ICD-10-CM |
| S42.332D | Displaced oblique fracture of shaft of humerus, left arm, subsequent encounter for fracture with routine healing              | Diagnosis     | ICD-10-CM |
| S42.332G | Displaced oblique fracture of shaft of humerus, left arm, subsequent encounter for fracture with delayed healing              | Diagnosis     | ICD-10-CM |
| S42.332K | Displaced oblique fracture of shaft of humerus, left arm, subsequent encounter for fracture with nonunion                     | Diagnosis     | ICD-10-CM |
| S42.332P | Displaced oblique fracture of shaft of humerus, left arm, subsequent encounter for fracture with malunion                     | Diagnosis     | ICD-10-CM |
| S42.332S | Displaced oblique fracture of shaft of humerus, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S42.333  | Displaced oblique fracture of shaft of humerus, unspecified arm   | Diagnosis     | ICD-10-CM |
| S42.333A | Displaced oblique fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.333B | Displaced oblique fracture of shaft of humerus, unspecified arm, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S42.333D | Displaced oblique fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S42.333G | Displaced oblique fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S42.333K | Displaced oblique fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S42.333P | Displaced oblique fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S42.333S | Displaced oblique fracture of shaft of humerus, unspecified arm, sequela   | Diagnosis     | ICD-10-CM |
| S42.334  | Nondisplaced oblique fracture of shaft of humerus, right arm   | Diagnosis     | ICD-10-CM |
| S42.334A | Nondisplaced oblique fracture of shaft of humerus, right arm, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S42.334B | Nondisplaced oblique fracture of shaft of humerus, right arm, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S42.334D | Nondisplaced oblique fracture of shaft of humerus, right arm, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S42.334G | Nondisplaced oblique fracture of shaft of humerus, right arm, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S42.334K | Nondisplaced oblique fracture of shaft of humerus, right arm, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S42.334P | Nondisplaced oblique fracture of shaft of humerus, right arm, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S42.334S | Nondisplaced oblique fracture of shaft of humerus, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S42.335  | Nondisplaced oblique fracture of shaft of humerus, left arm  | Diagnosis     | ICD-10-CM |
| S42.335A | Nondisplaced oblique fracture of shaft of humerus, left arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.335B | Nondisplaced oblique fracture of shaft of humerus, left arm, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.335D | Nondisplaced oblique fracture of shaft of humerus, left arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.335G | Nondisplaced oblique fracture of shaft of humerus, left arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.335K | Nondisplaced oblique fracture of shaft of humerus, left arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.335P | Nondisplaced oblique fracture of shaft of humerus, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.335S | Nondisplaced oblique fracture of shaft of humerus, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S42.336  | Nondisplaced oblique fracture of shaft of humerus, unspecified arm   | Diagnosis     | ICD-10-CM |
| S42.336A | Nondisplaced oblique fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.336B | Nondisplaced oblique fracture of shaft of humerus, unspecified arm, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.336D | Nondisplaced oblique fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.336G | Nondisplaced oblique fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.336K | Nondisplaced oblique fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.336P | Nondisplaced oblique fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with malunion    | Diagnosis     | ICD-10-CM |
| S42.336S | Nondisplaced oblique fracture of shaft of humerus, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S42.34   | Spiral fracture of shaft of humerus  | Diagnosis     | ICD-10-CM |
| S42.341  | Displaced spiral fracture of shaft of humerus, right arm   | Diagnosis     | ICD-10-CM |
| S42.341A | Displaced spiral fracture of shaft of humerus, right arm, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S42.341B | Displaced spiral fracture of shaft of humerus, right arm, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S42.341D | Displaced spiral fracture of shaft of humerus, right arm, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S42.341G | Displaced spiral fracture of shaft of humerus, right arm, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S42.341K | Displaced spiral fracture of shaft of humerus, right arm, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S42.341P | Displaced spiral fracture of shaft of humerus, right arm, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S42.341S | Displaced spiral fracture of shaft of humerus, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S42.342  | Displaced spiral fracture of shaft of humerus, left arm  | Diagnosis     | ICD-10-CM |
| S42.342A | Displaced spiral fracture of shaft of humerus, left arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.342B | Displaced spiral fracture of shaft of humerus, left arm, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.342D | Displaced spiral fracture of shaft of humerus, left arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.342G | Displaced spiral fracture of shaft of humerus, left arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.342K | Displaced spiral fracture of shaft of humerus, left arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.342P | Displaced spiral fracture of shaft of humerus, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.342S | Displaced spiral fracture of shaft of humerus, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S42.343  | Displaced spiral fracture of shaft of humerus, unspecified arm   | Diagnosis     | ICD-10-CM |
| S42.343A | Displaced spiral fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.343B | Displaced spiral fracture of shaft of humerus, unspecified arm, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.343D | Displaced spiral fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.343G | Displaced spiral fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.343K | Displaced spiral fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.343P | Displaced spiral fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.343S | Displaced spiral fracture of shaft of humerus, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S42.344  | Nondisplaced spiral fracture of shaft of humerus, right arm  | Diagnosis     | ICD-10-CM |
| S42.344A | Nondisplaced spiral fracture of shaft of humerus, right arm, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S42.344B | Nondisplaced spiral fracture of shaft of humerus, right arm, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S42.344D | Nondisplaced spiral fracture of shaft of humerus, right arm, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S42.344G | Nondisplaced spiral fracture of shaft of humerus, right arm, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S42.344K | Nondisplaced spiral fracture of shaft of humerus, right arm, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S42.344P | Nondisplaced spiral fracture of shaft of humerus, right arm, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S42.344S | Nondisplaced spiral fracture of shaft of humerus, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S42.345  | Nondisplaced spiral fracture of shaft of humerus, left arm  | Diagnosis     | ICD-10-CM |
| S42.345A | Nondisplaced spiral fracture of shaft of humerus, left arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.345B | Nondisplaced spiral fracture of shaft of humerus, left arm, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.345D | Nondisplaced spiral fracture of shaft of humerus, left arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.345G | Nondisplaced spiral fracture of shaft of humerus, left arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.345K | Nondisplaced spiral fracture of shaft of humerus, left arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.345P | Nondisplaced spiral fracture of shaft of humerus, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.345S | Nondisplaced spiral fracture of shaft of humerus, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S42.346  | Nondisplaced spiral fracture of shaft of humerus, unspecified arm   | Diagnosis     | ICD-10-CM |
| S42.346A | Nondisplaced spiral fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.346B | Nondisplaced spiral fracture of shaft of humerus, unspecified arm, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.346D | Nondisplaced spiral fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.346G | Nondisplaced spiral fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.346K | Nondisplaced spiral fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.346P | Nondisplaced spiral fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.346S | Nondisplaced spiral fracture of shaft of humerus, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S42.35   | Comminuted fracture of shaft of humerus   | Diagnosis     | ICD-10-CM |
| S42.351  | Displaced comminuted fracture of shaft of humerus, right arm  | Diagnosis     | ICD-10-CM |
| S42.351A | Displaced comminuted fracture of shaft of humerus, right arm, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S42.351B | Displaced comminuted fracture of shaft of humerus, right arm, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S42.351D | Displaced comminuted fracture of shaft of humerus, right arm, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S42.351G | Displaced comminuted fracture of shaft of humerus, right arm, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S42.351K | Displaced comminuted fracture of shaft of humerus, right arm, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S42.351P | Displaced comminuted fracture of shaft of humerus, right arm, subsequent encounter for fracture with malunion             | Diagnosis     | ICD-10-CM |
| S42.351S | Displaced comminuted fracture of shaft of humerus, right arm, sequela   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.352  | Displaced comminuted fracture of shaft of humerus, left arm  | Diagnosis     | ICD-10-CM |
| S42.352A | Displaced comminuted fracture of shaft of humerus, left arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.352B | Displaced comminuted fracture of shaft of humerus, left arm, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.352D | Displaced comminuted fracture of shaft of humerus, left arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.352G | Displaced comminuted fracture of shaft of humerus, left arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.352K | Displaced comminuted fracture of shaft of humerus, left arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.352P | Displaced comminuted fracture of shaft of humerus, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.352S | Displaced comminuted fracture of shaft of humerus, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S42.353  | Displaced comminuted fracture of shaft of humerus, unspecified arm   | Diagnosis     | ICD-10-CM |
| S42.353A | Displaced comminuted fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.353B | Displaced comminuted fracture of shaft of humerus, unspecified arm, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.353D | Displaced comminuted fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.353G | Displaced comminuted fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.353K | Displaced comminuted fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.353P | Displaced comminuted fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.353S | Displaced comminuted fracture of shaft of humerus, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S42.354  | Nondisplaced comminuted fracture of shaft of humerus, right arm  | Diagnosis     | ICD-10-CM |
| S42.354A | Nondisplaced comminuted fracture of shaft of humerus, right arm, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S42.354B | Nondisplaced comminuted fracture of shaft of humerus, right arm, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S42.354D | Nondisplaced comminuted fracture of shaft of humerus, right arm, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S42.354G | Nondisplaced comminuted fracture of shaft of humerus, right arm, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S42.354K | Nondisplaced comminuted fracture of shaft of humerus, right arm, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S42.354P | Nondisplaced comminuted fracture of shaft of humerus, right arm, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S42.354S | Nondisplaced comminuted fracture of shaft of humerus, right arm, sequela   | Diagnosis     | ICD-10-CM |
| S42.355  | Nondisplaced comminuted fracture of shaft of humerus, left arm   | Diagnosis     | ICD-10-CM |
| S42.355A | Nondisplaced comminuted fracture of shaft of humerus, left arm, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S42.355B | Nondisplaced comminuted fracture of shaft of humerus, left arm, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S42.355D | Nondisplaced comminuted fracture of shaft of humerus, left arm, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S42.355G | Nondisplaced comminuted fracture of shaft of humerus, left arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.355K | Nondisplaced comminuted fracture of shaft of humerus, left arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.355P | Nondisplaced comminuted fracture of shaft of humerus, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.355S | Nondisplaced comminuted fracture of shaft of humerus, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S42.356  | Nondisplaced comminuted fracture of shaft of humerus, unspecified arm   | Diagnosis     | ICD-10-CM |
| S42.356A | Nondisplaced comminuted fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.356B | Nondisplaced comminuted fracture of shaft of humerus, unspecified arm, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.356D | Nondisplaced comminuted fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.356G | Nondisplaced comminuted fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.356K | Nondisplaced comminuted fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.356P | Nondisplaced comminuted fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.356S | Nondisplaced comminuted fracture of shaft of humerus, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S42.36   | Segmental fracture of shaft of humerus  | Diagnosis     | ICD-10-CM |
| S42.361  | Displaced segmental fracture of shaft of humerus, right arm   | Diagnosis     | ICD-10-CM |
| S42.361A | Displaced segmental fracture of shaft of humerus, right arm, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S42.361B | Displaced segmental fracture of shaft of humerus, right arm, initial encounter for open fracture                              | Diagnosis     | ICD-10-CM |
| S42.361D | Displaced segmental fracture of shaft of humerus, right arm, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S42.361G | Displaced segmental fracture of shaft of humerus, right arm, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S42.361K | Displaced segmental fracture of shaft of humerus, right arm, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S42.361P | Displaced segmental fracture of shaft of humerus, right arm, subsequent encounter for fracture with malunion                  | Diagnosis     | ICD-10-CM |
| S42.361S | Displaced segmental fracture of shaft of humerus, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S42.362  | Displaced segmental fracture of shaft of humerus, left arm  | Diagnosis     | ICD-10-CM |
| S42.362A | Displaced segmental fracture of shaft of humerus, left arm, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S42.362B | Displaced segmental fracture of shaft of humerus, left arm, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S42.362D | Displaced segmental fracture of shaft of humerus, left arm, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S42.362G | Displaced segmental fracture of shaft of humerus, left arm, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S42.362K | Displaced segmental fracture of shaft of humerus, left arm, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S42.362P | Displaced segmental fracture of shaft of humerus, left arm, subsequent encounter for fracture with malunion                   | Diagnosis     | ICD-10-CM |
| S42.362S | Displaced segmental fracture of shaft of humerus, left arm, sequela   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.363  | Displaced segmental fracture of shaft of humerus, unspecified arm  | Diagnosis     | ICD-10-CM |
| S42.363A | Displaced segmental fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S42.363B | Displaced segmental fracture of shaft of humerus, unspecified arm, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S42.363D | Displaced segmental fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S42.363G | Displaced segmental fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S42.363K | Displaced segmental fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S42.363P | Displaced segmental fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S42.363S | Displaced segmental fracture of shaft of humerus, unspecified arm, sequela   | Diagnosis     | ICD-10-CM |
| S42.364  | Nondisplaced segmental fracture of shaft of humerus, right arm   | Diagnosis     | ICD-10-CM |
| S42.364A | Nondisplaced segmental fracture of shaft of humerus, right arm, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S42.364B | Nondisplaced segmental fracture of shaft of humerus, right arm, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S42.364D | Nondisplaced segmental fracture of shaft of humerus, right arm, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S42.364G | Nondisplaced segmental fracture of shaft of humerus, right arm, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S42.364K | Nondisplaced segmental fracture of shaft of humerus, right arm, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S42.364P | Nondisplaced segmental fracture of shaft of humerus, right arm, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S42.364S | Nondisplaced segmental fracture of shaft of humerus, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S42.365  | Nondisplaced segmental fracture of shaft of humerus, left arm  | Diagnosis     | ICD-10-CM |
| S42.365A | Nondisplaced segmental fracture of shaft of humerus, left arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.365B | Nondisplaced segmental fracture of shaft of humerus, left arm, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.365D | Nondisplaced segmental fracture of shaft of humerus, left arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.365G | Nondisplaced segmental fracture of shaft of humerus, left arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.365K | Nondisplaced segmental fracture of shaft of humerus, left arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.365P | Nondisplaced segmental fracture of shaft of humerus, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.365S | Nondisplaced segmental fracture of shaft of humerus, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S42.366  | Nondisplaced segmental fracture of shaft of humerus, unspecified arm   | Diagnosis     | ICD-10-CM |
| S42.366A | Nondisplaced segmental fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.366B | Nondisplaced segmental fracture of shaft of humerus, unspecified arm, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.366D | Nondisplaced segmental fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.366G | Nondisplaced segmental fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.366K | Nondisplaced segmental fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.366P | Nondisplaced segmental fracture of shaft of humerus, unspecified arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.366S | Nondisplaced segmental fracture of shaft of humerus, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S42.39   | Other fracture of shaft of humerus   | Diagnosis     | ICD-10-CM |
| S42.391  | Other fracture of shaft of right humerus   | Diagnosis     | ICD-10-CM |
| S42.391A | Other fracture of shaft of right humerus, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S42.391B | Other fracture of shaft of right humerus, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S42.391D | Other fracture of shaft of right humerus, subsequent encounter for fracture with routine healing                             | Diagnosis     | ICD-10-CM |
| S42.391G | Other fracture of shaft of right humerus, subsequent encounter for fracture with delayed healing                             | Diagnosis     | ICD-10-CM |
| S42.391K | Other fracture of shaft of right humerus, subsequent encounter for fracture with nonunion                                    | Diagnosis     | ICD-10-CM |
| S42.391P | Other fracture of shaft of right humerus, subsequent encounter for fracture with malunion                                    | Diagnosis     | ICD-10-CM |
| S42.391S | Other fracture of shaft of right humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.392  | Other fracture of shaft of left humerus  | Diagnosis     | ICD-10-CM |
| S42.392A | Other fracture of shaft of left humerus, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S42.392B | Other fracture of shaft of left humerus, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S42.392D | Other fracture of shaft of left humerus, subsequent encounter for fracture with routine healing                              | Diagnosis     | ICD-10-CM |
| S42.392G | Other fracture of shaft of left humerus, subsequent encounter for fracture with delayed healing                              | Diagnosis     | ICD-10-CM |
| S42.392K | Other fracture of shaft of left humerus, subsequent encounter for fracture with nonunion                                     | Diagnosis     | ICD-10-CM |
| S42.392P | Other fracture of shaft of left humerus, subsequent encounter for fracture with malunion                                     | Diagnosis     | ICD-10-CM |
| S42.392S | Other fracture of shaft of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.399  | Other fracture of shaft of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.399A | Other fracture of shaft of unspecified humerus, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S42.399B | Other fracture of shaft of unspecified humerus, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S42.399D | Other fracture of shaft of unspecified humerus, subsequent encounter for fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S42.399G | Other fracture of shaft of unspecified humerus, subsequent encounter for fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S42.399K | Other fracture of shaft of unspecified humerus, subsequent encounter for fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S42.399P | Other fracture of shaft of unspecified humerus, subsequent encounter for fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S42.399S | Other fracture of shaft of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.4    | Fracture of lower end of humerus   | Diagnosis     | ICD-10-CM |
| S42.40   | Unspecified fracture of lower end of humerus   | Diagnosis     | ICD-10-CM |
| S42.401  | Unspecified fracture of lower end of right humerus   | Diagnosis     | ICD-10-CM |
| S42.401A | Unspecified fracture of lower end of right humerus, initial encounter for closed fracture                                    | Diagnosis     | ICD-10-CM |
| S42.401B | Unspecified fracture of lower end of right humerus, initial encounter for open fracture                                      | Diagnosis     | ICD-10-CM |
| S42.401D | Unspecified fracture of lower end of right humerus, subsequent encounter for fracture with routine healing                   | Diagnosis     | ICD-10-CM |
| S42.401G | Unspecified fracture of lower end of right humerus, subsequent encounter for fracture with delayed healing                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S42.401K | Unspecified fracture of lower end of right humerus, subsequent encounter for fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S42.401P | Unspecified fracture of lower end of right humerus, subsequent encounter for fracture with malunion   | Diagnosis     | ICD-10-CM |
| S42.401S | Unspecified fracture of lower end of right humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.402  | Unspecified fracture of lower end of left humerus   | Diagnosis     | ICD-10-CM |
| S42.402A | Unspecified fracture of lower end of left humerus, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S42.402B | Unspecified fracture of lower end of left humerus, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S42.402D | Unspecified fracture of lower end of left humerus, subsequent encounter for fracture with routine healing                                       | Diagnosis     | ICD-10-CM |
| S42.402G | Unspecified fracture of lower end of left humerus, subsequent encounter for fracture with delayed healing                                       | Diagnosis     | ICD-10-CM |
| S42.402K | Unspecified fracture of lower end of left humerus, subsequent encounter for fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S42.402P | Unspecified fracture of lower end of left humerus, subsequent encounter for fracture with malunion  | Diagnosis     | ICD-10-CM |
| S42.402S | Unspecified fracture of lower end of left humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.409  | Unspecified fracture of lower end of unspecified humerus  | Diagnosis     | ICD-10-CM |
| S42.409A | Unspecified fracture of lower end of unspecified humerus, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S42.409B | Unspecified fracture of lower end of unspecified humerus, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S42.409D | Unspecified fracture of lower end of unspecified humerus, subsequent encounter for fracture with routine healing                                | Diagnosis     | ICD-10-CM |
| S42.409G | Unspecified fracture of lower end of unspecified humerus, subsequent encounter for fracture with delayed healing                                | Diagnosis     | ICD-10-CM |
| S42.409K | Unspecified fracture of lower end of unspecified humerus, subsequent encounter for fracture with nonunion                                       | Diagnosis     | ICD-10-CM |
| S42.409P | Unspecified fracture of lower end of unspecified humerus, subsequent encounter for fracture with malunion                                       | Diagnosis     | ICD-10-CM |
| S42.409S | Unspecified fracture of lower end of unspecified humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.41   | Simple supracondylar fracture without intercondylar fracture of humerus   | Diagnosis     | ICD-10-CM |
| S42.411  | Displaced simple supracondylar fracture without intercondylar fracture of right humerus   | Diagnosis     | ICD-10-CM |
| S42.411A | Displaced simple supracondylar fracture without intercondylar fracture of right humerus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.411B | Displaced simple supracondylar fracture without intercondylar fracture of right humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.411D | Displaced simple supracondylar fracture without intercondylar fracture of right humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.411G | Displaced simple supracondylar fracture without intercondylar fracture of right humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.411K | Displaced simple supracondylar fracture without intercondylar fracture of right humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.411P | Displaced simple supracondylar fracture without intercondylar fracture of right humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.411S | Displaced simple supracondylar fracture without intercondylar fracture of right humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.412  | Displaced simple supracondylar fracture without intercondylar fracture of left humerus  | Diagnosis     | ICD-10-CM |
| S42.412A | Displaced simple supracondylar fracture without intercondylar fracture of left humerus, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S42.412B | Displaced simple supracondylar fracture without intercondylar fracture of left humerus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.412D | Displaced simple supracondylar fracture without intercondylar fracture of left humerus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.412G | Displaced simple supracondylar fracture without intercondylar fracture of left humerus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.412K | Displaced simple supracondylar fracture without intercondylar fracture of left humerus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.412P | Displaced simple supracondylar fracture without intercondylar fracture of left humerus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.412S | Displaced simple supracondylar fracture without intercondylar fracture of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.413  | Displaced simple supracondylar fracture without intercondylar fracture of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.413A | Displaced simple supracondylar fracture without intercondylar fracture of unspecified humerus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.413B | Displaced simple supracondylar fracture without intercondylar fracture of unspecified humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.413D | Displaced simple supracondylar fracture without intercondylar fracture of unspecified humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.413G | Displaced simple supracondylar fracture without intercondylar fracture of unspecified humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.413K | Displaced simple supracondylar fracture without intercondylar fracture of unspecified humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.413P | Displaced simple supracondylar fracture without intercondylar fracture of unspecified humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.413S | Displaced simple supracondylar fracture without intercondylar fracture of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.414  | Nondisplaced simple supracondylar fracture without intercondylar fracture of right humerus  | Diagnosis     | ICD-10-CM |
| S42.414A | Nondisplaced simple supracondylar fracture without intercondylar fracture of right humerus, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S42.414B | Nondisplaced simple supracondylar fracture without intercondylar fracture of right humerus, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S42.414D | Nondisplaced simple supracondylar fracture without intercondylar fracture of right humerus, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S42.414G | Nondisplaced simple supracondylar fracture without intercondylar fracture of right humerus, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S42.414K | Nondisplaced simple supracondylar fracture without intercondylar fracture of right humerus, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S42.414P | Nondisplaced simple supracondylar fracture without intercondylar fracture of right humerus, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S42.414S | Nondisplaced simple supracondylar fracture without intercondylar fracture of right humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.415  | Nondisplaced simple supracondylar fracture without intercondylar fracture of left humerus   | Diagnosis     | ICD-10-CM |
| S42.415A | Nondisplaced simple supracondylar fracture without intercondylar fracture of left humerus, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S42.415B | Nondisplaced simple supracondylar fracture without intercondylar fracture of left humerus, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.415D | Nondisplaced simple supracondylar fracture without intercondylar fracture of left humerus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.415G | Nondisplaced simple supracondylar fracture without intercondylar fracture of left humerus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.415K | Nondisplaced simple supracondylar fracture without intercondylar fracture of left humerus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.415P | Nondisplaced simple supracondylar fracture without intercondylar fracture of left humerus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.415S | Nondisplaced simple supracondylar fracture without intercondylar fracture of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.416  | Nondisplaced simple supracondylar fracture without intercondylar fracture of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.416A | Nondisplaced simple supracondylar fracture without intercondylar fracture of unspecified humerus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.416B | Nondisplaced simple supracondylar fracture without intercondylar fracture of unspecified humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.416D | Nondisplaced simple supracondylar fracture without intercondylar fracture of unspecified humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.416G | Nondisplaced simple supracondylar fracture without intercondylar fracture of unspecified humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.416K | Nondisplaced simple supracondylar fracture without intercondylar fracture of unspecified humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.416P | Nondisplaced simple supracondylar fracture without intercondylar fracture of unspecified humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.416S | Nondisplaced simple supracondylar fracture without intercondylar fracture of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.42   | Comminuted supracondylar fracture without intercondylar fracture of humerus  | Diagnosis     | ICD-10-CM |
| S42.421  | Displaced comminuted supracondylar fracture without intercondylar fracture of right humerus  | Diagnosis     | ICD-10-CM |
| S42.421A | Displaced comminuted supracondylar fracture without intercondylar fracture of right humerus, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S42.421B | Displaced comminuted supracondylar fracture without intercondylar fracture of right humerus, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S42.421D | Displaced comminuted supracondylar fracture without intercondylar fracture of right humerus, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S42.421G | Displaced comminuted supracondylar fracture without intercondylar fracture of right humerus, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S42.421K | Displaced comminuted supracondylar fracture without intercondylar fracture of right humerus, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S42.421P | Displaced comminuted supracondylar fracture without intercondylar fracture of right humerus, subsequent encounter for fracture with malunion             | Diagnosis     | ICD-10-CM |
| S42.421S | Displaced comminuted supracondylar fracture without intercondylar fracture of right humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.422  | Displaced comminuted supracondylar fracture without intercondylar fracture of left humerus   | Diagnosis     | ICD-10-CM |
| S42.422A | Displaced comminuted supracondylar fracture without intercondylar fracture of left humerus, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S42.422B | Displaced comminuted supracondylar fracture without intercondylar fracture of left humerus, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S42.422D | Displaced comminuted supracondylar fracture without intercondylar fracture of left humerus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.422G | Displaced comminuted supracondylar fracture without intercondylar fracture of left humerus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.422K | Displaced comminuted supracondylar fracture without intercondylar fracture of left humerus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.422P | Displaced comminuted supracondylar fracture without intercondylar fracture of left humerus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.422S | Displaced comminuted supracondylar fracture without intercondylar fracture of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.423  | Displaced comminuted supracondylar fracture without intercondylar fracture of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.423A | Displaced comminuted supracondylar fracture without intercondylar fracture of unspecified humerus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.423B | Displaced comminuted supracondylar fracture without intercondylar fracture of unspecified humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.423D | Displaced comminuted supracondylar fracture without intercondylar fracture of unspecified humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.423G | Displaced comminuted supracondylar fracture without intercondylar fracture of unspecified humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.423K | Displaced comminuted supracondylar fracture without intercondylar fracture of unspecified humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.423P | Displaced comminuted supracondylar fracture without intercondylar fracture of unspecified humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.423S | Displaced comminuted supracondylar fracture without intercondylar fracture of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.424  | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of right humerus  | Diagnosis     | ICD-10-CM |
| S42.424A | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of right humerus, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S42.424B | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of right humerus, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S42.424D | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of right humerus, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S42.424G | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of right humerus, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S42.424K | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of right humerus, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S42.424P | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of right humerus, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S42.424S | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of right humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.425  | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of left humerus   | Diagnosis     | ICD-10-CM |
| S42.425A | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of left humerus, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S42.425B | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of left humerus, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S42.425D | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of left humerus, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.425G | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of left humerus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.425K | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of left humerus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.425P | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of left humerus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.425S | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.426  | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.426A | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of unspecified humerus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.426B | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of unspecified humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.426D | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of unspecified humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.426G | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of unspecified humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.426K | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of unspecified humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.426P | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of unspecified humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.426S | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.43   | Fracture (avulsion) of lateral epicondyle of humerus   | Diagnosis     | ICD-10-CM |
| S42.431  | Displaced fracture (avulsion) of lateral epicondyle of right humerus   | Diagnosis     | ICD-10-CM |
| S42.431A | Displaced fracture (avulsion) of lateral epicondyle of right humerus, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S42.431B | Displaced fracture (avulsion) of lateral epicondyle of right humerus, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S42.431D | Displaced fracture (avulsion) of lateral epicondyle of right humerus, subsequent encounter for fracture with routine healing                                 | Diagnosis     | ICD-10-CM |
| S42.431G | Displaced fracture (avulsion) of lateral epicondyle of right humerus, subsequent encounter for fracture with delayed healing                                 | Diagnosis     | ICD-10-CM |
| S42.431K | Displaced fracture (avulsion) of lateral epicondyle of right humerus, subsequent encounter for fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S42.431P | Displaced fracture (avulsion) of lateral epicondyle of right humerus, subsequent encounter for fracture with malunion  | Diagnosis     | ICD-10-CM |
| S42.431S | Displaced fracture (avulsion) of lateral epicondyle of right humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.432  | Displaced fracture (avulsion) of lateral epicondyle of left humerus  | Diagnosis     | ICD-10-CM |
| S42.432A | Displaced fracture (avulsion) of lateral epicondyle of left humerus, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S42.432B | Displaced fracture (avulsion) of lateral epicondyle of left humerus, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S42.432D | Displaced fracture (avulsion) of lateral epicondyle of left humerus, subsequent encounter for fracture with routine healing                                  | Diagnosis     | ICD-10-CM |
| S42.432G | Displaced fracture (avulsion) of lateral epicondyle of left humerus, subsequent encounter for fracture with delayed healing                                  | Diagnosis     | ICD-10-CM |
| S42.432K | Displaced fracture (avulsion) of lateral epicondyle of left humerus, subsequent encounter for fracture with nonunion   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.432P | Displaced fracture (avulsion) of lateral epicondyle of left humerus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.432S | Displaced fracture (avulsion) of lateral epicondyle of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.433  | Displaced fracture (avulsion) of lateral epicondyle of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.433A | Displaced fracture (avulsion) of lateral epicondyle of unspecified humerus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.433B | Displaced fracture (avulsion) of lateral epicondyle of unspecified humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.433D | Displaced fracture (avulsion) of lateral epicondyle of unspecified humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.433G | Displaced fracture (avulsion) of lateral epicondyle of unspecified humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.433K | Displaced fracture (avulsion) of lateral epicondyle of unspecified humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.433P | Displaced fracture (avulsion) of lateral epicondyle of unspecified humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.433S | Displaced fracture (avulsion) of lateral epicondyle of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.434  | Nondisplaced fracture (avulsion) of lateral epicondyle of right humerus  | Diagnosis     | ICD-10-CM |
| S42.434A | Nondisplaced fracture (avulsion) of lateral epicondyle of right humerus, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S42.434B | Nondisplaced fracture (avulsion) of lateral epicondyle of right humerus, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S42.434D | Nondisplaced fracture (avulsion) of lateral epicondyle of right humerus, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S42.434G | Nondisplaced fracture (avulsion) of lateral epicondyle of right humerus, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S42.434K | Nondisplaced fracture (avulsion) of lateral epicondyle of right humerus, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S42.434P | Nondisplaced fracture (avulsion) of lateral epicondyle of right humerus, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S42.434S | Nondisplaced fracture (avulsion) of lateral epicondyle of right humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.435  | Nondisplaced fracture (avulsion) of lateral epicondyle of left humerus   | Diagnosis     | ICD-10-CM |
| S42.435A | Nondisplaced fracture (avulsion) of lateral epicondyle of left humerus, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S42.435B | Nondisplaced fracture (avulsion) of lateral epicondyle of left humerus, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S42.435D | Nondisplaced fracture (avulsion) of lateral epicondyle of left humerus, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S42.435G | Nondisplaced fracture (avulsion) of lateral epicondyle of left humerus, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S42.435K | Nondisplaced fracture (avulsion) of lateral epicondyle of left humerus, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S42.435P | Nondisplaced fracture (avulsion) of lateral epicondyle of left humerus, subsequent encounter for fracture with malunion            | Diagnosis     | ICD-10-CM |
| S42.435S | Nondisplaced fracture (avulsion) of lateral epicondyle of left humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.436  | Nondisplaced fracture (avulsion) of lateral epicondyle of unspecified humerus  | Diagnosis     | ICD-10-CM |
| S42.436A | Nondisplaced fracture (avulsion) of lateral epicondyle of unspecified humerus, initial encounter for closed fracture               | Diagnosis     | ICD-10-CM |
| S42.436B | Nondisplaced fracture (avulsion) of lateral epicondyle of unspecified humerus, initial encounter for open fracture                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S42.436D | Nondisplaced fracture (avulsion) of lateral epicondyle of unspecified humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.436G | Nondisplaced fracture (avulsion) of lateral epicondyle of unspecified humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.436K | Nondisplaced fracture (avulsion) of lateral epicondyle of unspecified humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.436P | Nondisplaced fracture (avulsion) of lateral epicondyle of unspecified humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.436S | Nondisplaced fracture (avulsion) of lateral epicondyle of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.44   | Fracture (avulsion) of medial epicondyle of humerus   | Diagnosis     | ICD-10-CM |
| S42.441  | Displaced fracture (avulsion) of medial epicondyle of right humerus   | Diagnosis     | ICD-10-CM |
| S42.441A | Displaced fracture (avulsion) of medial epicondyle of right humerus, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S42.441B | Displaced fracture (avulsion) of medial epicondyle of right humerus, initial encounter for open fracture                              | Diagnosis     | ICD-10-CM |
| S42.441D | Displaced fracture (avulsion) of medial epicondyle of right humerus, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S42.441G | Displaced fracture (avulsion) of medial epicondyle of right humerus, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S42.441K | Displaced fracture (avulsion) of medial epicondyle of right humerus, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S42.441P | Displaced fracture (avulsion) of medial epicondyle of right humerus, subsequent encounter for fracture with malunion                  | Diagnosis     | ICD-10-CM |
| S42.441S | Displaced fracture (avulsion) of medial epicondyle of right humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.442  | Displaced fracture (avulsion) of medial epicondyle of left humerus  | Diagnosis     | ICD-10-CM |
| S42.442A | Displaced fracture (avulsion) of medial epicondyle of left humerus, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S42.442B | Displaced fracture (avulsion) of medial epicondyle of left humerus, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S42.442D | Displaced fracture (avulsion) of medial epicondyle of left humerus, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S42.442G | Displaced fracture (avulsion) of medial epicondyle of left humerus, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S42.442K | Displaced fracture (avulsion) of medial epicondyle of left humerus, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S42.442P | Displaced fracture (avulsion) of medial epicondyle of left humerus, subsequent encounter for fracture with malunion                   | Diagnosis     | ICD-10-CM |
| S42.442S | Displaced fracture (avulsion) of medial epicondyle of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.443  | Displaced fracture (avulsion) of medial epicondyle of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.443A | Displaced fracture (avulsion) of medial epicondyle of unspecified humerus, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S42.443B | Displaced fracture (avulsion) of medial epicondyle of unspecified humerus, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S42.443D | Displaced fracture (avulsion) of medial epicondyle of unspecified humerus, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S42.443G | Displaced fracture (avulsion) of medial epicondyle of unspecified humerus, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S42.443K | Displaced fracture (avulsion) of medial epicondyle of unspecified humerus, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.443P | Displaced fracture (avulsion) of medial epicondyle of unspecified humerus, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S42.443S | Displaced fracture (avulsion) of medial epicondyle of unspecified humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.444  | Nondisplaced fracture (avulsion) of medial epicondyle of right humerus   | Diagnosis     | ICD-10-CM |
| S42.444A | Nondisplaced fracture (avulsion) of medial epicondyle of right humerus, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S42.444B | Nondisplaced fracture (avulsion) of medial epicondyle of right humerus, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S42.444D | Nondisplaced fracture (avulsion) of medial epicondyle of right humerus, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S42.444G | Nondisplaced fracture (avulsion) of medial epicondyle of right humerus, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S42.444K | Nondisplaced fracture (avulsion) of medial epicondyle of right humerus, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S42.444P | Nondisplaced fracture (avulsion) of medial epicondyle of right humerus, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S42.444S | Nondisplaced fracture (avulsion) of medial epicondyle of right humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.445  | Nondisplaced fracture (avulsion) of medial epicondyle of left humerus  | Diagnosis     | ICD-10-CM |
| S42.445A | Nondisplaced fracture (avulsion) of medial epicondyle of left humerus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.445B | Nondisplaced fracture (avulsion) of medial epicondyle of left humerus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.445D | Nondisplaced fracture (avulsion) of medial epicondyle of left humerus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.445G | Nondisplaced fracture (avulsion) of medial epicondyle of left humerus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.445K | Nondisplaced fracture (avulsion) of medial epicondyle of left humerus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.445P | Nondisplaced fracture (avulsion) of medial epicondyle of left humerus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.445S | Nondisplaced fracture (avulsion) of medial epicondyle of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.446  | Nondisplaced fracture (avulsion) of medial epicondyle of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.446A | Nondisplaced fracture (avulsion) of medial epicondyle of unspecified humerus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.446B | Nondisplaced fracture (avulsion) of medial epicondyle of unspecified humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.446D | Nondisplaced fracture (avulsion) of medial epicondyle of unspecified humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.446G | Nondisplaced fracture (avulsion) of medial epicondyle of unspecified humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.446K | Nondisplaced fracture (avulsion) of medial epicondyle of unspecified humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.446P | Nondisplaced fracture (avulsion) of medial epicondyle of unspecified humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.446S | Nondisplaced fracture (avulsion) of medial epicondyle of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.447  | Incarcerated fracture (avulsion) of medial epicondyle of right humerus   | Diagnosis     | ICD-10-CM |
| S42.447A | Incarcerated fracture (avulsion) of medial epicondyle of right humerus, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S42.447B | Incarcerated fracture (avulsion) of medial epicondyle of right humerus, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.447D | Incarcerated fracture (avulsion) of medial epicondyle of right humerus, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S42.447G | Incarcerated fracture (avulsion) of medial epicondyle of right humerus, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S42.447K | Incarcerated fracture (avulsion) of medial epicondyle of right humerus, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S42.447P | Incarcerated fracture (avulsion) of medial epicondyle of right humerus, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S42.447S | Incarcerated fracture (avulsion) of medial epicondyle of right humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.448  | Incarcerated fracture (avulsion) of medial epicondyle of left humerus  | Diagnosis     | ICD-10-CM |
| S42.448A | Incarcerated fracture (avulsion) of medial epicondyle of left humerus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.448B | Incarcerated fracture (avulsion) of medial epicondyle of left humerus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.448D | Incarcerated fracture (avulsion) of medial epicondyle of left humerus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.448G | Incarcerated fracture (avulsion) of medial epicondyle of left humerus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.448K | Incarcerated fracture (avulsion) of medial epicondyle of left humerus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.448P | Incarcerated fracture (avulsion) of medial epicondyle of left humerus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.448S | Incarcerated fracture (avulsion) of medial epicondyle of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.449  | Incarcerated fracture (avulsion) of medial epicondyle of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.449A | Incarcerated fracture (avulsion) of medial epicondyle of unspecified humerus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.449B | Incarcerated fracture (avulsion) of medial epicondyle of unspecified humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.449D | Incarcerated fracture (avulsion) of medial epicondyle of unspecified humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.449G | Incarcerated fracture (avulsion) of medial epicondyle of unspecified humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.449K | Incarcerated fracture (avulsion) of medial epicondyle of unspecified humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.449P | Incarcerated fracture (avulsion) of medial epicondyle of unspecified humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.449S | Incarcerated fracture (avulsion) of medial epicondyle of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.45   | Fracture of lateral condyle of humerus   | Diagnosis     | ICD-10-CM |
| S42.451  | Displaced fracture of lateral condyle of right humerus   | Diagnosis     | ICD-10-CM |
| S42.451A | Displaced fracture of lateral condyle of right humerus, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S42.451B | Displaced fracture of lateral condyle of right humerus, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S42.451D | Displaced fracture of lateral condyle of right humerus, subsequent encounter for fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S42.451G | Displaced fracture of lateral condyle of right humerus, subsequent encounter for fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S42.451K | Displaced fracture of lateral condyle of right humerus, subsequent encounter for fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S42.451P | Displaced fracture of lateral condyle of right humerus, subsequent encounter for fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S42.451S | Displaced fracture of lateral condyle of right humerus, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.452  | Displaced fracture of lateral condyle of left humerus  | Diagnosis     | ICD-10-CM |
| S42.452A | Displaced fracture of lateral condyle of left humerus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.452B | Displaced fracture of lateral condyle of left humerus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.452D | Displaced fracture of lateral condyle of left humerus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.452G | Displaced fracture of lateral condyle of left humerus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.452K | Displaced fracture of lateral condyle of left humerus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.452P | Displaced fracture of lateral condyle of left humerus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.452S | Displaced fracture of lateral condyle of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.453  | Displaced fracture of lateral condyle of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.453A | Displaced fracture of lateral condyle of unspecified humerus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.453B | Displaced fracture of lateral condyle of unspecified humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.453D | Displaced fracture of lateral condyle of unspecified humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.453G | Displaced fracture of lateral condyle of unspecified humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.453K | Displaced fracture of lateral condyle of unspecified humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.453P | Displaced fracture of lateral condyle of unspecified humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.453S | Displaced fracture of lateral condyle of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.454  | Nondisplaced fracture of lateral condyle of right humerus  | Diagnosis     | ICD-10-CM |
| S42.454A | Nondisplaced fracture of lateral condyle of right humerus, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S42.454B | Nondisplaced fracture of lateral condyle of right humerus, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S42.454D | Nondisplaced fracture of lateral condyle of right humerus, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S42.454G | Nondisplaced fracture of lateral condyle of right humerus, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S42.454K | Nondisplaced fracture of lateral condyle of right humerus, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S42.454P | Nondisplaced fracture of lateral condyle of right humerus, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S42.454S | Nondisplaced fracture of lateral condyle of right humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.455  | Nondisplaced fracture of lateral condyle of left humerus   | Diagnosis     | ICD-10-CM |
| S42.455A | Nondisplaced fracture of lateral condyle of left humerus, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S42.455B | Nondisplaced fracture of lateral condyle of left humerus, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S42.455D | Nondisplaced fracture of lateral condyle of left humerus, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S42.455G | Nondisplaced fracture of lateral condyle of left humerus, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S42.455K | Nondisplaced fracture of lateral condyle of left humerus, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S42.455P | Nondisplaced fracture of lateral condyle of left humerus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.455S | Nondisplaced fracture of lateral condyle of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.456  | Nondisplaced fracture of lateral condyle of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.456A | Nondisplaced fracture of lateral condyle of unspecified humerus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.456B | Nondisplaced fracture of lateral condyle of unspecified humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.456D | Nondisplaced fracture of lateral condyle of unspecified humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.456G | Nondisplaced fracture of lateral condyle of unspecified humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.456K | Nondisplaced fracture of lateral condyle of unspecified humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.456P | Nondisplaced fracture of lateral condyle of unspecified humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.456S | Nondisplaced fracture of lateral condyle of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.46   | Fracture of medial condyle of humerus   | Diagnosis     | ICD-10-CM |
| S42.461  | Displaced fracture of medial condyle of right humerus   | Diagnosis     | ICD-10-CM |
| S42.461A | Displaced fracture of medial condyle of right humerus, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S42.461B | Displaced fracture of medial condyle of right humerus, initial encounter for open fracture                              | Diagnosis     | ICD-10-CM |
| S42.461D | Displaced fracture of medial condyle of right humerus, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S42.461G | Displaced fracture of medial condyle of right humerus, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S42.461K | Displaced fracture of medial condyle of right humerus, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S42.461P | Displaced fracture of medial condyle of right humerus, subsequent encounter for fracture with malunion                  | Diagnosis     | ICD-10-CM |
| S42.461S | Displaced fracture of medial condyle of right humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.462  | Displaced fracture of medial condyle of left humerus  | Diagnosis     | ICD-10-CM |
| S42.462A | Displaced fracture of medial condyle of left humerus, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S42.462B | Displaced fracture of medial condyle of left humerus, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S42.462D | Displaced fracture of medial condyle of left humerus, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S42.462G | Displaced fracture of medial condyle of left humerus, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S42.462K | Displaced fracture of medial condyle of left humerus, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S42.462P | Displaced fracture of medial condyle of left humerus, subsequent encounter for fracture with malunion                   | Diagnosis     | ICD-10-CM |
| S42.462S | Displaced fracture of medial condyle of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.463  | Displaced fracture of medial condyle of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.463A | Displaced fracture of medial condyle of unspecified humerus, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S42.463B | Displaced fracture of medial condyle of unspecified humerus, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S42.463D | Displaced fracture of medial condyle of unspecified humerus, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.463G | Displaced fracture of medial condyle of unspecified humerus, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S42.463K | Displaced fracture of medial condyle of unspecified humerus, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S42.463P | Displaced fracture of medial condyle of unspecified humerus, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S42.463S | Displaced fracture of medial condyle of unspecified humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.464  | Nondisplaced fracture of medial condyle of right humerus   | Diagnosis     | ICD-10-CM |
| S42.464A | Nondisplaced fracture of medial condyle of right humerus, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S42.464B | Nondisplaced fracture of medial condyle of right humerus, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S42.464D | Nondisplaced fracture of medial condyle of right humerus, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S42.464G | Nondisplaced fracture of medial condyle of right humerus, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S42.464K | Nondisplaced fracture of medial condyle of right humerus, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S42.464P | Nondisplaced fracture of medial condyle of right humerus, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S42.464S | Nondisplaced fracture of medial condyle of right humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.465  | Nondisplaced fracture of medial condyle of left humerus  | Diagnosis     | ICD-10-CM |
| S42.465A | Nondisplaced fracture of medial condyle of left humerus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.465B | Nondisplaced fracture of medial condyle of left humerus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.465D | Nondisplaced fracture of medial condyle of left humerus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.465G | Nondisplaced fracture of medial condyle of left humerus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.465K | Nondisplaced fracture of medial condyle of left humerus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.465P | Nondisplaced fracture of medial condyle of left humerus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.465S | Nondisplaced fracture of medial condyle of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.466  | Nondisplaced fracture of medial condyle of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.466A | Nondisplaced fracture of medial condyle of unspecified humerus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.466B | Nondisplaced fracture of medial condyle of unspecified humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.466D | Nondisplaced fracture of medial condyle of unspecified humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.466G | Nondisplaced fracture of medial condyle of unspecified humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.466K | Nondisplaced fracture of medial condyle of unspecified humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.466P | Nondisplaced fracture of medial condyle of unspecified humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.466S | Nondisplaced fracture of medial condyle of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.47   | Transcondylar fracture of humerus  | Diagnosis     | ICD-10-CM |
| S42.471  | Displaced transcondylar fracture of right humerus  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S42.471A | Displaced transcondylar fracture of right humerus, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S42.471B | Displaced transcondylar fracture of right humerus, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S42.471D | Displaced transcondylar fracture of right humerus, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S42.471G | Displaced transcondylar fracture of right humerus, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S42.471K | Displaced transcondylar fracture of right humerus, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S42.471P | Displaced transcondylar fracture of right humerus, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S42.471S | Displaced transcondylar fracture of right humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.472  | Displaced transcondylar fracture of left humerus  | Diagnosis     | ICD-10-CM |
| S42.472A | Displaced transcondylar fracture of left humerus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.472B | Displaced transcondylar fracture of left humerus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.472D | Displaced transcondylar fracture of left humerus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.472G | Displaced transcondylar fracture of left humerus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.472K | Displaced transcondylar fracture of left humerus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.472P | Displaced transcondylar fracture of left humerus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.472S | Displaced transcondylar fracture of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.473  | Displaced transcondylar fracture of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.473A | Displaced transcondylar fracture of unspecified humerus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.473B | Displaced transcondylar fracture of unspecified humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.473D | Displaced transcondylar fracture of unspecified humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.473G | Displaced transcondylar fracture of unspecified humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.473K | Displaced transcondylar fracture of unspecified humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.473P | Displaced transcondylar fracture of unspecified humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.473S | Displaced transcondylar fracture of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.474  | Nondisplaced transcondylar fracture of right humerus  | Diagnosis     | ICD-10-CM |
| S42.474A | Nondisplaced transcondylar fracture of right humerus, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S42.474B | Nondisplaced transcondylar fracture of right humerus, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S42.474D | Nondisplaced transcondylar fracture of right humerus, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S42.474G | Nondisplaced transcondylar fracture of right humerus, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S42.474K | Nondisplaced transcondylar fracture of right humerus, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S42.474P | Nondisplaced transcondylar fracture of right humerus, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S42.474S | Nondisplaced transcondylar fracture of right humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.475  | Nondisplaced transcondylar fracture of left humerus   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.475A | Nondisplaced transcondylar fracture of left humerus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.475B | Nondisplaced transcondylar fracture of left humerus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.475D | Nondisplaced transcondylar fracture of left humerus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.475G | Nondisplaced transcondylar fracture of left humerus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.475K | Nondisplaced transcondylar fracture of left humerus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.475P | Nondisplaced transcondylar fracture of left humerus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.475S | Nondisplaced transcondylar fracture of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.476  | Nondisplaced transcondylar fracture of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.476A | Nondisplaced transcondylar fracture of unspecified humerus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.476B | Nondisplaced transcondylar fracture of unspecified humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.476D | Nondisplaced transcondylar fracture of unspecified humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.476G | Nondisplaced transcondylar fracture of unspecified humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.476K | Nondisplaced transcondylar fracture of unspecified humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.476P | Nondisplaced transcondylar fracture of unspecified humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.476S | Nondisplaced transcondylar fracture of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.48   | Torus fracture of lower end of humerus   | Diagnosis     | ICD-10-CM |
| S42.481  | Torus fracture of lower end of right humerus   | Diagnosis     | ICD-10-CM |
| S42.481A | Torus fracture of lower end of right humerus, initial encounter for closed fracture                                | Diagnosis     | ICD-10-CM |
| S42.481D | Torus fracture of lower end of right humerus, subsequent encounter for fracture with routine healing               | Diagnosis     | ICD-10-CM |
| S42.481G | Torus fracture of lower end of right humerus, subsequent encounter for fracture with delayed healing               | Diagnosis     | ICD-10-CM |
| S42.481K | Torus fracture of lower end of right humerus, subsequent encounter for fracture with nonunion                      | Diagnosis     | ICD-10-CM |
| S42.481P | Torus fracture of lower end of right humerus, subsequent encounter for fracture with malunion                      | Diagnosis     | ICD-10-CM |
| S42.481S | Torus fracture of lower end of right humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.482  | Torus fracture of lower end of left humerus  | Diagnosis     | ICD-10-CM |
| S42.482A | Torus fracture of lower end of left humerus, initial encounter for closed fracture                                 | Diagnosis     | ICD-10-CM |
| S42.482D | Torus fracture of lower end of left humerus, subsequent encounter for fracture with routine healing                | Diagnosis     | ICD-10-CM |
| S42.482G | Torus fracture of lower end of left humerus, subsequent encounter for fracture with delayed healing                | Diagnosis     | ICD-10-CM |
| S42.482K | Torus fracture of lower end of left humerus, subsequent encounter for fracture with nonunion                       | Diagnosis     | ICD-10-CM |
| S42.482P | Torus fracture of lower end of left humerus, subsequent encounter for fracture with malunion                       | Diagnosis     | ICD-10-CM |
| S42.482S | Torus fracture of lower end of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.489  | Torus fracture of lower end of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.489A | Torus fracture of lower end of unspecified humerus, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S42.489D | Torus fracture of lower end of unspecified humerus, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S42.489G | Torus fracture of lower end of unspecified humerus, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S42.489K | Torus fracture of lower end of unspecified humerus, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S42.489P | Torus fracture of lower end of unspecified humerus, subsequent encounter for fracture with malunion                  | Diagnosis     | ICD-10-CM |
| S42.489S | Torus fracture of lower end of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.49   | Other fracture of lower end of humerus   | Diagnosis     | ICD-10-CM |
| S42.491  | Other displaced fracture of lower end of right humerus   | Diagnosis     | ICD-10-CM |
| S42.491A | Other displaced fracture of lower end of right humerus, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S42.491B | Other displaced fracture of lower end of right humerus, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S42.491D | Other displaced fracture of lower end of right humerus, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S42.491G | Other displaced fracture of lower end of right humerus, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S42.491K | Other displaced fracture of lower end of right humerus, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S42.491P | Other displaced fracture of lower end of right humerus, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S42.491S | Other displaced fracture of lower end of right humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.492  | Other displaced fracture of lower end of left humerus  | Diagnosis     | ICD-10-CM |
| S42.492A | Other displaced fracture of lower end of left humerus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.492B | Other displaced fracture of lower end of left humerus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.492D | Other displaced fracture of lower end of left humerus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.492G | Other displaced fracture of lower end of left humerus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.492K | Other displaced fracture of lower end of left humerus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.492P | Other displaced fracture of lower end of left humerus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.492S | Other displaced fracture of lower end of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.493  | Other displaced fracture of lower end of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.493A | Other displaced fracture of lower end of unspecified humerus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.493B | Other displaced fracture of lower end of unspecified humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.493D | Other displaced fracture of lower end of unspecified humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.493G | Other displaced fracture of lower end of unspecified humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.493K | Other displaced fracture of lower end of unspecified humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.493P | Other displaced fracture of lower end of unspecified humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.493S | Other displaced fracture of lower end of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.494  | Other nondisplaced fracture of lower end of right humerus  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S42.494A | Other nondisplaced fracture of lower end of right humerus, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S42.494B | Other nondisplaced fracture of lower end of right humerus, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S42.494D | Other nondisplaced fracture of lower end of right humerus, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S42.494G | Other nondisplaced fracture of lower end of right humerus, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S42.494K | Other nondisplaced fracture of lower end of right humerus, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S42.494P | Other nondisplaced fracture of lower end of right humerus, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S42.494S | Other nondisplaced fracture of lower end of right humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.495  | Other nondisplaced fracture of lower end of left humerus  | Diagnosis     | ICD-10-CM |
| S42.495A | Other nondisplaced fracture of lower end of left humerus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S42.495B | Other nondisplaced fracture of lower end of left humerus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S42.495D | Other nondisplaced fracture of lower end of left humerus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S42.495G | Other nondisplaced fracture of lower end of left humerus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S42.495K | Other nondisplaced fracture of lower end of left humerus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S42.495P | Other nondisplaced fracture of lower end of left humerus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S42.495S | Other nondisplaced fracture of lower end of left humerus, sequela   | Diagnosis     | ICD-10-CM |
| S42.496  | Other nondisplaced fracture of lower end of unspecified humerus   | Diagnosis     | ICD-10-CM |
| S42.496A | Other nondisplaced fracture of lower end of unspecified humerus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.496B | Other nondisplaced fracture of lower end of unspecified humerus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.496D | Other nondisplaced fracture of lower end of unspecified humerus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.496G | Other nondisplaced fracture of lower end of unspecified humerus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.496K | Other nondisplaced fracture of lower end of unspecified humerus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.496P | Other nondisplaced fracture of lower end of unspecified humerus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.496S | Other nondisplaced fracture of lower end of unspecified humerus, sequela  | Diagnosis     | ICD-10-CM |
| S42.9    | Fracture of shoulder girdle, part unspecified   | Diagnosis     | ICD-10-CM |
| S42.90   | Fracture of unspecified shoulder girdle, part unspecified   | Diagnosis     | ICD-10-CM |
| S42.90XA | Fracture of unspecified shoulder girdle, part unspecified, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S42.90XB | Fracture of unspecified shoulder girdle, part unspecified, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S42.90XD | Fracture of unspecified shoulder girdle, part unspecified, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S42.90XG | Fracture of unspecified shoulder girdle, part unspecified, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S42.90XK | Fracture of unspecified shoulder girdle, part unspecified, subsequent encounter for fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S42.90XP | Fracture of unspecified shoulder girdle, part unspecified, subsequent encounter for fracture with malunion  | Diagnosis     | ICD-10-CM |
| S42.90XS | Fracture of unspecified shoulder girdle, part unspecified, sequela  | Diagnosis     | ICD-10-CM |
| S42.91   | Fracture of right shoulder girdle, part unspecified   | Diagnosis     | ICD-10-CM |
| S42.91XA | Fracture of right shoulder girdle, part unspecified, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S42.91XB | Fracture of right shoulder girdle, part unspecified, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S42.91XD | Fracture of right shoulder girdle, part unspecified, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S42.91XG | Fracture of right shoulder girdle, part unspecified, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S42.91XK | Fracture of right shoulder girdle, part unspecified, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S42.91XP | Fracture of right shoulder girdle, part unspecified, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S42.91XS | Fracture of right shoulder girdle, part unspecified, sequela  | Diagnosis     | ICD-10-CM |
| S42.92   | Fracture of left shoulder girdle, part unspecified  | Diagnosis     | ICD-10-CM |
| S42.92XA | Fracture of left shoulder girdle, part unspecified, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S42.92XB | Fracture of left shoulder girdle, part unspecified, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S42.92XD | Fracture of left shoulder girdle, part unspecified, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S42.92XG | Fracture of left shoulder girdle, part unspecified, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S42.92XK | Fracture of left shoulder girdle, part unspecified, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S42.92XP | Fracture of left shoulder girdle, part unspecified, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S42.92XS | Fracture of left shoulder girdle, part unspecified, sequela   | Diagnosis     | ICD-10-CM |
| S43      | Dislocation and sprain of joints and ligaments of shoulder girdle   | Diagnosis     | ICD-10-CM |
| S43.0    | Subluxation and dislocation of shoulder joint   | Diagnosis     | ICD-10-CM |
| S43.00   | Unspecified subluxation and dislocation of shoulder joint   | Diagnosis     | ICD-10-CM |
| S43.001  | Unspecified subluxation of right shoulder joint   | Diagnosis     | ICD-10-CM |
| S43.001A | Unspecified subluxation of right shoulder joint, initial encounter  | Diagnosis     | ICD-10-CM |
| S43.001D | Unspecified subluxation of right shoulder joint, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S43.001S | Unspecified subluxation of right shoulder joint, sequela  | Diagnosis     | ICD-10-CM |
| S43.002  | Unspecified subluxation of left shoulder joint  | Diagnosis     | ICD-10-CM |
| S43.002A | Unspecified subluxation of left shoulder joint, initial encounter   | Diagnosis     | ICD-10-CM |
| S43.002D | Unspecified subluxation of left shoulder joint, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S43.002S | Unspecified subluxation of left shoulder joint, sequela   | Diagnosis     | ICD-10-CM |
| S43.003  | Unspecified subluxation of unspecified shoulder joint   | Diagnosis     | ICD-10-CM |
| S43.003A | Unspecified subluxation of unspecified shoulder joint, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S43.003D | Unspecified subluxation of unspecified shoulder joint, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S43.003S | Unspecified subluxation of unspecified shoulder joint, sequela  | Diagnosis     | ICD-10-CM |
| S43.004  | Unspecified dislocation of right shoulder joint   | Diagnosis     | ICD-10-CM |
| S43.004A | Unspecified dislocation of right shoulder joint, initial encounter  | Diagnosis     | ICD-10-CM |
| S43.004D | Unspecified dislocation of right shoulder joint, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S43.004S | Unspecified dislocation of right shoulder joint, sequela  | Diagnosis     | ICD-10-CM |
| S43.005  | Unspecified dislocation of left shoulder joint  | Diagnosis     | ICD-10-CM |
| S43.005A | Unspecified dislocation of left shoulder joint, initial encounter   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S43.005D | Unspecified dislocation of left shoulder joint, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S43.005S | Unspecified dislocation of left shoulder joint, sequela                     | Diagnosis     | ICD-10-CM |
| S43.006  | Unspecified dislocation of unspecified shoulder joint                       | Diagnosis     | ICD-10-CM |
| S43.006A | Unspecified dislocation of unspecified shoulder joint, initial encounter    | Diagnosis     | ICD-10-CM |
| S43.006D | Unspecified dislocation of unspecified shoulder joint, subsequent encounter | Diagnosis     | ICD-10-CM |
| S43.006S | Unspecified dislocation of unspecified shoulder joint, sequela              | Diagnosis     | ICD-10-CM |
| S43.01   | Anterior subluxation and dislocation of humerus                             | Diagnosis     | ICD-10-CM |
| S43.011  | Anterior subluxation of right humerus                                       | Diagnosis     | ICD-10-CM |
| S43.011A | Anterior subluxation of right humerus, initial encounter                    | Diagnosis     | ICD-10-CM |
| S43.011D | Anterior subluxation of right humerus, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S43.011S | Anterior subluxation of right humerus, sequela                              | Diagnosis     | ICD-10-CM |
| S43.012  | Anterior subluxation of left humerus  | Diagnosis     | ICD-10-CM |
| S43.012A | Anterior subluxation of left humerus, initial encounter                     | Diagnosis     | ICD-10-CM |
| S43.012D | Anterior subluxation of left humerus, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S43.012S | Anterior subluxation of left humerus, sequela                               | Diagnosis     | ICD-10-CM |
| S43.013  | Anterior subluxation of unspecified humerus                                 | Diagnosis     | ICD-10-CM |
| S43.013A | Anterior subluxation of unspecified humerus, initial encounter              | Diagnosis     | ICD-10-CM |
| S43.013D | Anterior subluxation of unspecified humerus, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S43.013S | Anterior subluxation of unspecified humerus, sequela                        | Diagnosis     | ICD-10-CM |
| S43.014  | Anterior dislocation of right humerus                                       | Diagnosis     | ICD-10-CM |
| S43.014A | Anterior dislocation of right humerus, initial encounter                    | Diagnosis     | ICD-10-CM |
| S43.014D | Anterior dislocation of right humerus, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S43.014S | Anterior dislocation of right humerus, sequela                              | Diagnosis     | ICD-10-CM |
| S43.015  | Anterior dislocation of left humerus  | Diagnosis     | ICD-10-CM |
| S43.015A | Anterior dislocation of left humerus, initial encounter                     | Diagnosis     | ICD-10-CM |
| S43.015D | Anterior dislocation of left humerus, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S43.015S | Anterior dislocation of left humerus, sequela                               | Diagnosis     | ICD-10-CM |
| S43.016  | Anterior dislocation of unspecified humerus                                 | Diagnosis     | ICD-10-CM |
| S43.016A | Anterior dislocation of unspecified humerus, initial encounter              | Diagnosis     | ICD-10-CM |
| S43.016D | Anterior dislocation of unspecified humerus, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S43.016S | Anterior dislocation of unspecified humerus, sequela                        | Diagnosis     | ICD-10-CM |
| S43.02   | Posterior subluxation and dislocation of humerus                            | Diagnosis     | ICD-10-CM |
| S43.021  | Posterior subluxation of right humerus                                      | Diagnosis     | ICD-10-CM |
| S43.021A | Posterior subluxation of right humerus, initial encounter                   | Diagnosis     | ICD-10-CM |
| S43.021D | Posterior subluxation of right humerus, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S43.021S | Posterior subluxation of right humerus, sequela                             | Diagnosis     | ICD-10-CM |
| S43.022  | Posterior subluxation of left humerus                                       | Diagnosis     | ICD-10-CM |
| S43.022A | Posterior subluxation of left humerus, initial encounter                    | Diagnosis     | ICD-10-CM |
| S43.022D | Posterior subluxation of left humerus, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S43.022S | Posterior subluxation of left humerus, sequela                              | Diagnosis     | ICD-10-CM |
| S43.023  | Posterior subluxation of unspecified humerus                                | Diagnosis     | ICD-10-CM |
| S43.023A | Posterior subluxation of unspecified humerus, initial encounter             | Diagnosis     | ICD-10-CM |
| S43.023D | Posterior subluxation of unspecified humerus, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S43.023S | Posterior subluxation of unspecified humerus, sequela                       | Diagnosis     | ICD-10-CM |
| S43.024  | Posterior dislocation of right humerus                                      | Diagnosis     | ICD-10-CM |
| S43.024A | Posterior dislocation of right humerus, initial encounter                   | Diagnosis     | ICD-10-CM |
| S43.024D | Posterior dislocation of right humerus, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S43.024S | Posterior dislocation of right humerus, sequela                             | Diagnosis     | ICD-10-CM |
| S43.025  | Posterior dislocation of left humerus                                       | Diagnosis     | ICD-10-CM |
| S43.025A | Posterior dislocation of left humerus, initial encounter                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S43.025D | Posterior dislocation of left humerus, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S43.025S | Posterior dislocation of left humerus, sequela                        | Diagnosis     | ICD-10-CM |
| S43.026  | Posterior dislocation of unspecified humerus                          | Diagnosis     | ICD-10-CM |
| S43.026A | Posterior dislocation of unspecified humerus, initial encounter       | Diagnosis     | ICD-10-CM |
| S43.026D | Posterior dislocation of unspecified humerus, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S43.026S | Posterior dislocation of unspecified humerus, sequela                 | Diagnosis     | ICD-10-CM |
| S43.03   | Inferior subluxation and dislocation of humerus                       | Diagnosis     | ICD-10-CM |
| S43.031  | Inferior subluxation of right humerus                                 | Diagnosis     | ICD-10-CM |
| S43.031A | Inferior subluxation of right humerus, initial encounter              | Diagnosis     | ICD-10-CM |
| S43.031D | Inferior subluxation of right humerus, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S43.031S | Inferior subluxation of right humerus, sequela                        | Diagnosis     | ICD-10-CM |
| S43.032  | Inferior subluxation of left humerus                                  | Diagnosis     | ICD-10-CM |
| S43.032A | Inferior subluxation of left humerus, initial encounter               | Diagnosis     | ICD-10-CM |
| S43.032D | Inferior subluxation of left humerus, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S43.032S | Inferior subluxation of left humerus, sequela                         | Diagnosis     | ICD-10-CM |
| S43.033  | Inferior subluxation of unspecified humerus                           | Diagnosis     | ICD-10-CM |
| S43.033A | Inferior subluxation of unspecified humerus, initial encounter        | Diagnosis     | ICD-10-CM |
| S43.033D | Inferior subluxation of unspecified humerus, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S43.033S | Inferior subluxation of unspecified humerus, sequela                  | Diagnosis     | ICD-10-CM |
| S43.034  | Inferior dislocation of right humerus                                 | Diagnosis     | ICD-10-CM |
| S43.034A | Inferior dislocation of right humerus, initial encounter              | Diagnosis     | ICD-10-CM |
| S43.034D | Inferior dislocation of right humerus, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S43.034S | Inferior dislocation of right humerus, sequela                        | Diagnosis     | ICD-10-CM |
| S43.035  | Inferior dislocation of left humerus                                  | Diagnosis     | ICD-10-CM |
| S43.035A | Inferior dislocation of left humerus, initial encounter               | Diagnosis     | ICD-10-CM |
| S43.035D | Inferior dislocation of left humerus, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S43.035S | Inferior dislocation of left humerus, sequela                         | Diagnosis     | ICD-10-CM |
| S43.036  | Inferior dislocation of unspecified humerus                           | Diagnosis     | ICD-10-CM |
| S43.036A | Inferior dislocation of unspecified humerus, initial encounter        | Diagnosis     | ICD-10-CM |
| S43.036D | Inferior dislocation of unspecified humerus, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S43.036S | Inferior dislocation of unspecified humerus, sequela                  | Diagnosis     | ICD-10-CM |
| S43.08   | Other subluxation and dislocation of shoulder joint                   | Diagnosis     | ICD-10-CM |
| S43.081  | Other subluxation of right shoulder joint                             | Diagnosis     | ICD-10-CM |
| S43.081A | Other subluxation of right shoulder joint, initial encounter          | Diagnosis     | ICD-10-CM |
| S43.081D | Other subluxation of right shoulder joint, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S43.081S | Other subluxation of right shoulder joint, sequela                    | Diagnosis     | ICD-10-CM |
| S43.082  | Other subluxation of left shoulder joint                              | Diagnosis     | ICD-10-CM |
| S43.082A | Other subluxation of left shoulder joint, initial encounter           | Diagnosis     | ICD-10-CM |
| S43.082D | Other subluxation of left shoulder joint, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S43.082S | Other subluxation of left shoulder joint, sequela                     | Diagnosis     | ICD-10-CM |
| S43.083  | Other subluxation of unspecified shoulder joint                       | Diagnosis     | ICD-10-CM |
| S43.083A | Other subluxation of unspecified shoulder joint, initial encounter    | Diagnosis     | ICD-10-CM |
| S43.083D | Other subluxation of unspecified shoulder joint, subsequent encounter | Diagnosis     | ICD-10-CM |
| S43.083S | Other subluxation of unspecified shoulder joint, sequela              | Diagnosis     | ICD-10-CM |
| S43.084  | Other dislocation of right shoulder joint                             | Diagnosis     | ICD-10-CM |
| S43.084A | Other dislocation of right shoulder joint, initial encounter          | Diagnosis     | ICD-10-CM |
| S43.084D | Other dislocation of right shoulder joint, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S43.084S | Other dislocation of right shoulder joint, sequela                    | Diagnosis     | ICD-10-CM |
| S43.085  | Other dislocation of left shoulder joint                              | Diagnosis     | ICD-10-CM |
| S43.085A | Other dislocation of left shoulder joint, initial encounter           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S43.085D | Other dislocation of left shoulder joint, subsequent encounter                                   | Diagnosis     | ICD-10-CM |
| S43.085S | Other dislocation of left shoulder joint, sequela  | Diagnosis     | ICD-10-CM |
| S43.086  | Other dislocation of unspecified shoulder joint  | Diagnosis     | ICD-10-CM |
| S43.086A | Other dislocation of unspecified shoulder joint, initial encounter                               | Diagnosis     | ICD-10-CM |
| S43.086D | Other dislocation of unspecified shoulder joint, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S43.086S | Other dislocation of unspecified shoulder joint, sequela   | Diagnosis     | ICD-10-CM |
| S43.1    | Subluxation and dislocation of acromioclavicular joint   | Diagnosis     | ICD-10-CM |
| S43.10   | Unspecified dislocation of acromioclavicular joint   | Diagnosis     | ICD-10-CM |
| S43.101  | Unspecified dislocation of right acromioclavicular joint   | Diagnosis     | ICD-10-CM |
| S43.101A | Unspecified dislocation of right acromioclavicular joint, initial encounter                      | Diagnosis     | ICD-10-CM |
| S43.101D | Unspecified dislocation of right acromioclavicular joint, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S43.101S | Unspecified dislocation of right acromioclavicular joint, sequela                                | Diagnosis     | ICD-10-CM |
| S43.102  | Unspecified dislocation of left acromioclavicular joint  | Diagnosis     | ICD-10-CM |
| S43.102A | Unspecified dislocation of left acromioclavicular joint, initial encounter                       | Diagnosis     | ICD-10-CM |
| S43.102D | Unspecified dislocation of left acromioclavicular joint, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S43.102S | Unspecified dislocation of left acromioclavicular joint, sequela                                 | Diagnosis     | ICD-10-CM |
| S43.109  | Unspecified dislocation of unspecified acromioclavicular joint                                   | Diagnosis     | ICD-10-CM |
| S43.109A | Unspecified dislocation of unspecified acromioclavicular joint, initial encounter                | Diagnosis     | ICD-10-CM |
| S43.109D | Unspecified dislocation of unspecified acromioclavicular joint, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S43.109S | Unspecified dislocation of unspecified acromioclavicular joint, sequela                          | Diagnosis     | ICD-10-CM |
| S43.11   | Subluxation of acromioclavicular joint   | Diagnosis     | ICD-10-CM |
| S43.111  | Subluxation of right acromioclavicular joint   | Diagnosis     | ICD-10-CM |
| S43.111A | Subluxation of right acromioclavicular joint, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S43.111D | Subluxation of right acromioclavicular joint, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S43.111S | Subluxation of right acromioclavicular joint, sequela  | Diagnosis     | ICD-10-CM |
| S43.112  | Subluxation of left acromioclavicular joint  | Diagnosis     | ICD-10-CM |
| S43.112A | Subluxation of left acromioclavicular joint, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S43.112D | Subluxation of left acromioclavicular joint, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S43.112S | Subluxation of left acromioclavicular joint, sequela   | Diagnosis     | ICD-10-CM |
| S43.119  | Subluxation of unspecified acromioclavicular joint   | Diagnosis     | ICD-10-CM |
| S43.119A | Subluxation of unspecified acromioclavicular joint, initial encounter                            | Diagnosis     | ICD-10-CM |
| S43.119D | Subluxation of unspecified acromioclavicular joint, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S43.119S | Subluxation of unspecified acromioclavicular joint, sequela                                      | Diagnosis     | ICD-10-CM |
| S43.12   | Dislocation of acromioclavicular joint, 100%-200% displacement                                   | Diagnosis     | ICD-10-CM |
| S43.121  | Dislocation of right acromioclavicular joint, 100%-200% displacement                             | Diagnosis     | ICD-10-CM |
| S43.121A | Dislocation of right acromioclavicular joint, 100%-200% displacement, initial encounter          | Diagnosis     | ICD-10-CM |
| S43.121D | Dislocation of right acromioclavicular joint, 100%-200% displacement, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S43.121S | Dislocation of right acromioclavicular joint, 100%-200% displacement, sequela                    | Diagnosis     | ICD-10-CM |
| S43.122  | Dislocation of left acromioclavicular joint, 100%-200% displacement                              | Diagnosis     | ICD-10-CM |
| S43.122A | Dislocation of left acromioclavicular joint, 100%-200% displacement, initial encounter           | Diagnosis     | ICD-10-CM |
| S43.122D | Dislocation of left acromioclavicular joint, 100%-200% displacement, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S43.122S | Dislocation of left acromioclavicular joint, 100%-200% displacement, sequela                     | Diagnosis     | ICD-10-CM |
| S43.129  | Dislocation of unspecified acromioclavicular joint, 100%-200% displacement                       | Diagnosis     | ICD-10-CM |
| S43.129A | Dislocation of unspecified acromioclavicular joint, 100%-200% displacement, initial encounter    | Diagnosis     | ICD-10-CM |
| S43.129D | Dislocation of unspecified acromioclavicular joint, 100%-200% displacement, subsequent encounter | Diagnosis     | ICD-10-CM |
| S43.129S | Dislocation of unspecified acromioclavicular joint, 100%-200% displacement, sequela              | Diagnosis     | ICD-10-CM |
| S43.13   | Dislocation of acromioclavicular joint, greater than 200% displacement                           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S43.131  | Dislocation of right acromioclavicular joint, greater than 200% displacement                             | Diagnosis     | ICD-10-CM |
| S43.131A | Dislocation of right acromioclavicular joint, greater than 200% displacement, initial encounter          | Diagnosis     | ICD-10-CM |
| S43.131D | Dislocation of right acromioclavicular joint, greater than 200% displacement, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S43.131S | Dislocation of right acromioclavicular joint, greater than 200% displacement, sequela                    | Diagnosis     | ICD-10-CM |
| S43.132  | Dislocation of left acromioclavicular joint, greater than 200% displacement                              | Diagnosis     | ICD-10-CM |
| S43.132A | Dislocation of left acromioclavicular joint, greater than 200% displacement, initial encounter           | Diagnosis     | ICD-10-CM |
| S43.132D | Dislocation of left acromioclavicular joint, greater than 200% displacement, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S43.132S | Dislocation of left acromioclavicular joint, greater than 200% displacement, sequela                     | Diagnosis     | ICD-10-CM |
| S43.139  | Dislocation of unspecified acromioclavicular joint, greater than 200% displacement                       | Diagnosis     | ICD-10-CM |
| S43.139A | Dislocation of unspecified acromioclavicular joint, greater than 200% displacement, initial encounter    | Diagnosis     | ICD-10-CM |
| S43.139D | Dislocation of unspecified acromioclavicular joint, greater than 200% displacement, subsequent encounter | Diagnosis     | ICD-10-CM |
| S43.139S | Dislocation of unspecified acromioclavicular joint, greater than 200% displacement, sequela              | Diagnosis     | ICD-10-CM |
| S43.14   | Inferior dislocation of acromioclavicular joint  | Diagnosis     | ICD-10-CM |
| S43.141  | Inferior dislocation of right acromioclavicular joint  | Diagnosis     | ICD-10-CM |
| S43.141A | Inferior dislocation of right acromioclavicular joint, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S43.141D | Inferior dislocation of right acromioclavicular joint, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S43.141S | Inferior dislocation of right acromioclavicular joint, sequela   | Diagnosis     | ICD-10-CM |
| S43.142  | Inferior dislocation of left acromioclavicular joint   | Diagnosis     | ICD-10-CM |
| S43.142A | Inferior dislocation of left acromioclavicular joint, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S43.142D | Inferior dislocation of left acromioclavicular joint, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S43.142S | Inferior dislocation of left acromioclavicular joint, sequela  | Diagnosis     | ICD-10-CM |
| S43.149  | Inferior dislocation of unspecified acromioclavicular joint  | Diagnosis     | ICD-10-CM |
| S43.149A | Inferior dislocation of unspecified acromioclavicular joint, initial encounter                           | Diagnosis     | ICD-10-CM |
| S43.149D | Inferior dislocation of unspecified acromioclavicular joint, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S43.149S | Inferior dislocation of unspecified acromioclavicular joint, sequela                                     | Diagnosis     | ICD-10-CM |
| S43.15   | Posterior dislocation of acromioclavicular joint   | Diagnosis     | ICD-10-CM |
| S43.151  | Posterior dislocation of right acromioclavicular joint   | Diagnosis     | ICD-10-CM |
| S43.151A | Posterior dislocation of right acromioclavicular joint, initial encounter                                | Diagnosis     | ICD-10-CM |
| S43.151D | Posterior dislocation of right acromioclavicular joint, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S43.151S | Posterior dislocation of right acromioclavicular joint, sequela  | Diagnosis     | ICD-10-CM |
| S43.152  | Posterior dislocation of left acromioclavicular joint  | Diagnosis     | ICD-10-CM |
| S43.152A | Posterior dislocation of left acromioclavicular joint, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S43.152D | Posterior dislocation of left acromioclavicular joint, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S43.152S | Posterior dislocation of left acromioclavicular joint, sequela   | Diagnosis     | ICD-10-CM |
| S43.159  | Posterior dislocation of unspecified acromioclavicular joint   | Diagnosis     | ICD-10-CM |
| S43.159A | Posterior dislocation of unspecified acromioclavicular joint, initial encounter                          | Diagnosis     | ICD-10-CM |
| S43.159D | Posterior dislocation of unspecified acromioclavicular joint, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S43.159S | Posterior dislocation of unspecified acromioclavicular joint, sequela                                    | Diagnosis     | ICD-10-CM |
| S43.2    | Subluxation and dislocation of sternoclavicular joint  | Diagnosis     | ICD-10-CM |
| S43.20   | Unspecified subluxation and dislocation of sternoclavicular joint  | Diagnosis     | ICD-10-CM |
| S43.201  | Unspecified subluxation of right sternoclavicular joint  | Diagnosis     | ICD-10-CM |
| S43.201A | Unspecified subluxation of right sternoclavicular joint, initial encounter                               | Diagnosis     | ICD-10-CM |
| S43.201D | Unspecified subluxation of right sternoclavicular joint, subsequent encounter                            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S43.201S | Unspecified subluxation of right sternoclavicular joint, sequela                    | Diagnosis     | ICD-10-CM |
| S43.202  | Unspecified subluxation of left sternoclavicular joint                              | Diagnosis     | ICD-10-CM |
| S43.202A | Unspecified subluxation of left sternoclavicular joint, initial encounter           | Diagnosis     | ICD-10-CM |
| S43.202D | Unspecified subluxation of left sternoclavicular joint, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S43.202S | Unspecified subluxation of left sternoclavicular joint, sequela                     | Diagnosis     | ICD-10-CM |
| S43.203  | Unspecified subluxation of unspecified sternoclavicular joint                       | Diagnosis     | ICD-10-CM |
| S43.203A | Unspecified subluxation of unspecified sternoclavicular joint, initial encounter    | Diagnosis     | ICD-10-CM |
| S43.203D | Unspecified subluxation of unspecified sternoclavicular joint, subsequent encounter | Diagnosis     | ICD-10-CM |
| S43.203S | Unspecified subluxation of unspecified sternoclavicular joint, sequela              | Diagnosis     | ICD-10-CM |
| S43.204  | Unspecified dislocation of right sternoclavicular joint                             | Diagnosis     | ICD-10-CM |
| S43.204A | Unspecified dislocation of right sternoclavicular joint, initial encounter          | Diagnosis     | ICD-10-CM |
| S43.204D | Unspecified dislocation of right sternoclavicular joint, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S43.204S | Unspecified dislocation of right sternoclavicular joint, sequela                    | Diagnosis     | ICD-10-CM |
| S43.205  | Unspecified dislocation of left sternoclavicular joint                              | Diagnosis     | ICD-10-CM |
| S43.205A | Unspecified dislocation of left sternoclavicular joint, initial encounter           | Diagnosis     | ICD-10-CM |
| S43.205D | Unspecified dislocation of left sternoclavicular joint, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S43.205S | Unspecified dislocation of left sternoclavicular joint, sequela                     | Diagnosis     | ICD-10-CM |
| S43.206  | Unspecified dislocation of unspecified sternoclavicular joint                       | Diagnosis     | ICD-10-CM |
| S43.206A | Unspecified dislocation of unspecified sternoclavicular joint, initial encounter    | Diagnosis     | ICD-10-CM |
| S43.206D | Unspecified dislocation of unspecified sternoclavicular joint, subsequent encounter | Diagnosis     | ICD-10-CM |
| S43.206S | Unspecified dislocation of unspecified sternoclavicular joint, sequela              | Diagnosis     | ICD-10-CM |
| S43.21   | Anterior subluxation and dislocation of sternoclavicular joint                      | Diagnosis     | ICD-10-CM |
| S43.211  | Anterior subluxation of right sternoclavicular joint                                | Diagnosis     | ICD-10-CM |
| S43.211A | Anterior subluxation of right sternoclavicular joint, initial encounter             | Diagnosis     | ICD-10-CM |
| S43.211D | Anterior subluxation of right sternoclavicular joint, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S43.211S | Anterior subluxation of right sternoclavicular joint, sequela                       | Diagnosis     | ICD-10-CM |
| S43.212  | Anterior subluxation of left sternoclavicular joint                                 | Diagnosis     | ICD-10-CM |
| S43.212A | Anterior subluxation of left sternoclavicular joint, initial encounter              | Diagnosis     | ICD-10-CM |
| S43.212D | Anterior subluxation of left sternoclavicular joint, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S43.212S | Anterior subluxation of left sternoclavicular joint, sequela                        | Diagnosis     | ICD-10-CM |
| S43.213  | Anterior subluxation of unspecified sternoclavicular joint                          | Diagnosis     | ICD-10-CM |
| S43.213A | Anterior subluxation of unspecified sternoclavicular joint, initial encounter       | Diagnosis     | ICD-10-CM |
| S43.213D | Anterior subluxation of unspecified sternoclavicular joint, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S43.213S | Anterior subluxation of unspecified sternoclavicular joint, sequela                 | Diagnosis     | ICD-10-CM |
| S43.214  | Anterior dislocation of right sternoclavicular joint                                | Diagnosis     | ICD-10-CM |
| S43.214A | Anterior dislocation of right sternoclavicular joint, initial encounter             | Diagnosis     | ICD-10-CM |
| S43.214D | Anterior dislocation of right sternoclavicular joint, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S43.214S | Anterior dislocation of right sternoclavicular joint, sequela                       | Diagnosis     | ICD-10-CM |
| S43.215  | Anterior dislocation of left sternoclavicular joint                                 | Diagnosis     | ICD-10-CM |
| S43.215A | Anterior dislocation of left sternoclavicular joint, initial encounter              | Diagnosis     | ICD-10-CM |
| S43.215D | Anterior dislocation of left sternoclavicular joint, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S43.215S | Anterior dislocation of left sternoclavicular joint, sequela                        | Diagnosis     | ICD-10-CM |
| S43.216  | Anterior dislocation of unspecified sternoclavicular joint                          | Diagnosis     | ICD-10-CM |
| S43.216A | Anterior dislocation of unspecified sternoclavicular joint, initial encounter       | Diagnosis     | ICD-10-CM |
| S43.216D | Anterior dislocation of unspecified sternoclavicular joint, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S43.216S | Anterior dislocation of unspecified sternoclavicular joint, sequela                 | Diagnosis     | ICD-10-CM |
| S43.22   | Posterior subluxation and dislocation of sternoclavicular joint                     | Diagnosis     | ICD-10-CM |
| S43.221  | Posterior subluxation of right sternoclavicular joint                               | Diagnosis     | ICD-10-CM |
| S43.221A | Posterior subluxation of right sternoclavicular joint, initial encounter            | Diagnosis     | ICD-10-CM |
| S43.221D | Posterior subluxation of right sternoclavicular joint, subsequent encounter         | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S43.221S | Posterior subluxation of right sternoclavicular joint, sequela                        | Diagnosis     | ICD-10-CM |
| S43.222  | Posterior subluxation of left sternoclavicular joint                                  | Diagnosis     | ICD-10-CM |
| S43.222A | Posterior subluxation of left sternoclavicular joint, initial encounter               | Diagnosis     | ICD-10-CM |
| S43.222D | Posterior subluxation of left sternoclavicular joint, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S43.222S | Posterior subluxation of left sternoclavicular joint, sequela                         | Diagnosis     | ICD-10-CM |
| S43.223  | Posterior subluxation of unspecified sternoclavicular joint                           | Diagnosis     | ICD-10-CM |
| S43.223A | Posterior subluxation of unspecified sternoclavicular joint, initial encounter        | Diagnosis     | ICD-10-CM |
| S43.223D | Posterior subluxation of unspecified sternoclavicular joint, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S43.223S | Posterior subluxation of unspecified sternoclavicular joint, sequela                  | Diagnosis     | ICD-10-CM |
| S43.224  | Posterior dislocation of right sternoclavicular joint                                 | Diagnosis     | ICD-10-CM |
| S43.224A | Posterior dislocation of right sternoclavicular joint, initial encounter              | Diagnosis     | ICD-10-CM |
| S43.224D | Posterior dislocation of right sternoclavicular joint, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S43.224S | Posterior dislocation of right sternoclavicular joint, sequela                        | Diagnosis     | ICD-10-CM |
| S43.225  | Posterior dislocation of left sternoclavicular joint                                  | Diagnosis     | ICD-10-CM |
| S43.225A | Posterior dislocation of left sternoclavicular joint, initial encounter               | Diagnosis     | ICD-10-CM |
| S43.225D | Posterior dislocation of left sternoclavicular joint, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S43.225S | Posterior dislocation of left sternoclavicular joint, sequela                         | Diagnosis     | ICD-10-CM |
| S43.226  | Posterior dislocation of unspecified sternoclavicular joint                           | Diagnosis     | ICD-10-CM |
| S43.226A | Posterior dislocation of unspecified sternoclavicular joint, initial encounter        | Diagnosis     | ICD-10-CM |
| S43.226D | Posterior dislocation of unspecified sternoclavicular joint, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S43.226S | Posterior dislocation of unspecified sternoclavicular joint, sequela                  | Diagnosis     | ICD-10-CM |
| S43.3    | Subluxation and dislocation of other and unspecified parts of shoulder girdle         | Diagnosis     | ICD-10-CM |
| S43.30   | Subluxation and dislocation of unspecified parts of shoulder girdle                   | Diagnosis     | ICD-10-CM |
| S43.301  | Subluxation of unspecified parts of right shoulder girdle                             | Diagnosis     | ICD-10-CM |
| S43.301A | Subluxation of unspecified parts of right shoulder girdle, initial encounter          | Diagnosis     | ICD-10-CM |
| S43.301D | Subluxation of unspecified parts of right shoulder girdle, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S43.301S | Subluxation of unspecified parts of right shoulder girdle, sequela                    | Diagnosis     | ICD-10-CM |
| S43.302  | Subluxation of unspecified parts of left shoulder girdle                              | Diagnosis     | ICD-10-CM |
| S43.302A | Subluxation of unspecified parts of left shoulder girdle, initial encounter           | Diagnosis     | ICD-10-CM |
| S43.302D | Subluxation of unspecified parts of left shoulder girdle, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S43.302S | Subluxation of unspecified parts of left shoulder girdle, sequela                     | Diagnosis     | ICD-10-CM |
| S43.303  | Subluxation of unspecified parts of unspecified shoulder girdle                       | Diagnosis     | ICD-10-CM |
| S43.303A | Subluxation of unspecified parts of unspecified shoulder girdle, initial encounter    | Diagnosis     | ICD-10-CM |
| S43.303D | Subluxation of unspecified parts of unspecified shoulder girdle, subsequent encounter | Diagnosis     | ICD-10-CM |
| S43.303S | Subluxation of unspecified parts of unspecified shoulder girdle, sequela              | Diagnosis     | ICD-10-CM |
| S43.304  | Dislocation of unspecified parts of right shoulder girdle                             | Diagnosis     | ICD-10-CM |
| S43.304A | Dislocation of unspecified parts of right shoulder girdle, initial encounter          | Diagnosis     | ICD-10-CM |
| S43.304D | Dislocation of unspecified parts of right shoulder girdle, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S43.304S | Dislocation of unspecified parts of right shoulder girdle, sequela                    | Diagnosis     | ICD-10-CM |
| S43.305  | Dislocation of unspecified parts of left shoulder girdle                              | Diagnosis     | ICD-10-CM |
| S43.305A | Dislocation of unspecified parts of left shoulder girdle, initial encounter           | Diagnosis     | ICD-10-CM |
| S43.305D | Dislocation of unspecified parts of left shoulder girdle, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S43.305S | Dislocation of unspecified parts of left shoulder girdle, sequela                     | Diagnosis     | ICD-10-CM |
| S43.306  | Dislocation of unspecified parts of unspecified shoulder girdle                       | Diagnosis     | ICD-10-CM |
| S43.306A | Dislocation of unspecified parts of unspecified shoulder girdle, initial encounter    | Diagnosis     | ICD-10-CM |
| S43.306D | Dislocation of unspecified parts of unspecified shoulder girdle, subsequent encounter | Diagnosis     | ICD-10-CM |
| S43.306S | Dislocation of unspecified parts of unspecified shoulder girdle, sequela              | Diagnosis     | ICD-10-CM |
| S43.31   | Subluxation and dislocation of scapula  | Diagnosis     | ICD-10-CM |
| S43.311  | Subluxation of right scapula  | Diagnosis     | ICD-10-CM |
| S43.311A | Subluxation of right scapula, initial encounter                                       | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S43.311D | Subluxation of right scapula, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S43.311S | Subluxation of right scapula, sequela   | Diagnosis     | ICD-10-CM |
| S43.312  | Subluxation of left scapula   | Diagnosis     | ICD-10-CM |
| S43.312A | Subluxation of left scapula, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S43.312D | Subluxation of left scapula, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S43.312S | Subluxation of left scapula, sequela  | Diagnosis     | ICD-10-CM |
| S43.313  | Subluxation of unspecified scapula  | Diagnosis     | ICD-10-CM |
| S43.313A | Subluxation of unspecified scapula, initial encounter                           | Diagnosis     | ICD-10-CM |
| S43.313D | Subluxation of unspecified scapula, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S43.313S | Subluxation of unspecified scapula, sequela                                     | Diagnosis     | ICD-10-CM |
| S43.314  | Dislocation of right scapula  | Diagnosis     | ICD-10-CM |
| S43.314A | Dislocation of right scapula, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S43.314D | Dislocation of right scapula, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S43.314S | Dislocation of right scapula, sequela   | Diagnosis     | ICD-10-CM |
| S43.315  | Dislocation of left scapula   | Diagnosis     | ICD-10-CM |
| S43.315A | Dislocation of left scapula, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S43.315D | Dislocation of left scapula, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S43.315S | Dislocation of left scapula, sequela  | Diagnosis     | ICD-10-CM |
| S43.316  | Dislocation of unspecified scapula  | Diagnosis     | ICD-10-CM |
| S43.316A | Dislocation of unspecified scapula, initial encounter                           | Diagnosis     | ICD-10-CM |
| S43.316D | Dislocation of unspecified scapula, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S43.316S | Dislocation of unspecified scapula, sequela                                     | Diagnosis     | ICD-10-CM |
| S43.39   | Subluxation and dislocation of other parts of shoulder girdle                   | Diagnosis     | ICD-10-CM |
| S43.391  | Subluxation of other parts of right shoulder girdle                             | Diagnosis     | ICD-10-CM |
| S43.391A | Subluxation of other parts of right shoulder girdle, initial encounter          | Diagnosis     | ICD-10-CM |
| S43.391D | Subluxation of other parts of right shoulder girdle, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S43.391S | Subluxation of other parts of right shoulder girdle, sequela                    | Diagnosis     | ICD-10-CM |
| S43.392  | Subluxation of other parts of left shoulder girdle                              | Diagnosis     | ICD-10-CM |
| S43.392A | Subluxation of other parts of left shoulder girdle, initial encounter           | Diagnosis     | ICD-10-CM |
| S43.392D | Subluxation of other parts of left shoulder girdle, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S43.392S | Subluxation of other parts of left shoulder girdle, sequela                     | Diagnosis     | ICD-10-CM |
| S43.393  | Subluxation of other parts of unspecified shoulder girdle                       | Diagnosis     | ICD-10-CM |
| S43.393A | Subluxation of other parts of unspecified shoulder girdle, initial encounter    | Diagnosis     | ICD-10-CM |
| S43.393D | Subluxation of other parts of unspecified shoulder girdle, subsequent encounter | Diagnosis     | ICD-10-CM |
| S43.393S | Subluxation of other parts of unspecified shoulder girdle, sequela              | Diagnosis     | ICD-10-CM |
| S43.394  | Dislocation of other parts of right shoulder girdle                             | Diagnosis     | ICD-10-CM |
| S43.394A | Dislocation of other parts of right shoulder girdle, initial encounter          | Diagnosis     | ICD-10-CM |
| S43.394D | Dislocation of other parts of right shoulder girdle, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S43.394S | Dislocation of other parts of right shoulder girdle, sequela                    | Diagnosis     | ICD-10-CM |
| S43.395  | Dislocation of other parts of left shoulder girdle                              | Diagnosis     | ICD-10-CM |
| S43.395A | Dislocation of other parts of left shoulder girdle, initial encounter           | Diagnosis     | ICD-10-CM |
| S43.395D | Dislocation of other parts of left shoulder girdle, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S43.395S | Dislocation of other parts of left shoulder girdle, sequela                     | Diagnosis     | ICD-10-CM |
| S43.396  | Dislocation of other parts of unspecified shoulder girdle                       | Diagnosis     | ICD-10-CM |
| S43.396A | Dislocation of other parts of unspecified shoulder girdle, initial encounter    | Diagnosis     | ICD-10-CM |
| S43.396D | Dislocation of other parts of unspecified shoulder girdle, subsequent encounter | Diagnosis     | ICD-10-CM |
| S43.396S | Dislocation of other parts of unspecified shoulder girdle, sequela              | Diagnosis     | ICD-10-CM |
| S43.4    | Sprain of shoulder joint  | Diagnosis     | ICD-10-CM |
| S43.40   | Unspecified sprain of shoulder joint  | Diagnosis     | ICD-10-CM |
| S43.401  | Unspecified sprain of right shoulder joint                                      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S43.401A | Unspecified sprain of right shoulder joint, initial encounter                | Diagnosis     | ICD-10-CM |
| S43.401D | Unspecified sprain of right shoulder joint, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S43.401S | Unspecified sprain of right shoulder joint, sequela                          | Diagnosis     | ICD-10-CM |
| S43.402  | Unspecified sprain of left shoulder joint                                    | Diagnosis     | ICD-10-CM |
| S43.402A | Unspecified sprain of left shoulder joint, initial encounter                 | Diagnosis     | ICD-10-CM |
| S43.402D | Unspecified sprain of left shoulder joint, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S43.402S | Unspecified sprain of left shoulder joint, sequela                           | Diagnosis     | ICD-10-CM |
| S43.409  | Unspecified sprain of unspecified shoulder joint                             | Diagnosis     | ICD-10-CM |
| S43.409A | Unspecified sprain of unspecified shoulder joint, initial encounter          | Diagnosis     | ICD-10-CM |
| S43.409D | Unspecified sprain of unspecified shoulder joint, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S43.409S | Unspecified sprain of unspecified shoulder joint, sequela                    | Diagnosis     | ICD-10-CM |
| S43.41   | Sprain of coracohumeral (ligament)   | Diagnosis     | ICD-10-CM |
| S43.411  | Sprain of right coracohumeral (ligament)                                     | Diagnosis     | ICD-10-CM |
| S43.411A | Sprain of right coracohumeral (ligament), initial encounter                  | Diagnosis     | ICD-10-CM |
| S43.411D | Sprain of right coracohumeral (ligament), subsequent encounter               | Diagnosis     | ICD-10-CM |
| S43.411S | Sprain of right coracohumeral (ligament), sequela                            | Diagnosis     | ICD-10-CM |
| S43.412  | Sprain of left coracohumeral (ligament)                                      | Diagnosis     | ICD-10-CM |
| S43.412A | Sprain of left coracohumeral (ligament), initial encounter                   | Diagnosis     | ICD-10-CM |
| S43.412D | Sprain of left coracohumeral (ligament), subsequent encounter                | Diagnosis     | ICD-10-CM |
| S43.412S | Sprain of left coracohumeral (ligament), sequela                             | Diagnosis     | ICD-10-CM |
| S43.419  | Sprain of unspecified coracohumeral (ligament)                               | Diagnosis     | ICD-10-CM |
| S43.419A | Sprain of unspecified coracohumeral (ligament), initial encounter            | Diagnosis     | ICD-10-CM |
| S43.419D | Sprain of unspecified coracohumeral (ligament), subsequent encounter         | Diagnosis     | ICD-10-CM |
| S43.419S | Sprain of unspecified coracohumeral (ligament), sequela                      | Diagnosis     | ICD-10-CM |
| S43.42   | Sprain of rotator cuff capsule   | Diagnosis     | ICD-10-CM |
| S43.421  | Sprain of right rotator cuff capsule   | Diagnosis     | ICD-10-CM |
| S43.421A | Sprain of right rotator cuff capsule, initial encounter                      | Diagnosis     | ICD-10-CM |
| S43.421D | Sprain of right rotator cuff capsule, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S43.421S | Sprain of right rotator cuff capsule, sequela                                | Diagnosis     | ICD-10-CM |
| S43.422  | Sprain of left rotator cuff capsule  | Diagnosis     | ICD-10-CM |
| S43.422A | Sprain of left rotator cuff capsule, initial encounter                       | Diagnosis     | ICD-10-CM |
| S43.422D | Sprain of left rotator cuff capsule, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S43.422S | Sprain of left rotator cuff capsule, sequela                                 | Diagnosis     | ICD-10-CM |
| S43.429  | Sprain of unspecified rotator cuff capsule                                   | Diagnosis     | ICD-10-CM |
| S43.429A | Sprain of unspecified rotator cuff capsule, initial encounter                | Diagnosis     | ICD-10-CM |
| S43.429D | Sprain of unspecified rotator cuff capsule, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S43.429S | Sprain of unspecified rotator cuff capsule, sequela                          | Diagnosis     | ICD-10-CM |
| S43.43   | Superior glenoid labrum lesion   | Diagnosis     | ICD-10-CM |
| S43.431  | Superior glenoid labrum lesion of right shoulder                             | Diagnosis     | ICD-10-CM |
| S43.431A | Superior glenoid labrum lesion of right shoulder, initial encounter          | Diagnosis     | ICD-10-CM |
| S43.431D | Superior glenoid labrum lesion of right shoulder, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S43.431S | Superior glenoid labrum lesion of right shoulder, sequela                    | Diagnosis     | ICD-10-CM |
| S43.432  | Superior glenoid labrum lesion of left shoulder                              | Diagnosis     | ICD-10-CM |
| S43.432A | Superior glenoid labrum lesion of left shoulder, initial encounter           | Diagnosis     | ICD-10-CM |
| S43.432D | Superior glenoid labrum lesion of left shoulder, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S43.432S | Superior glenoid labrum lesion of left shoulder, sequela                     | Diagnosis     | ICD-10-CM |
| S43.439  | Superior glenoid labrum lesion of unspecified shoulder                       | Diagnosis     | ICD-10-CM |
| S43.439A | Superior glenoid labrum lesion of unspecified shoulder, initial encounter    | Diagnosis     | ICD-10-CM |
| S43.439D | Superior glenoid labrum lesion of unspecified shoulder, subsequent encounter | Diagnosis     | ICD-10-CM |
| S43.439S | Superior glenoid labrum lesion of unspecified shoulder, sequela              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S43.49   | Other sprain of shoulder joint   | Diagnosis     | ICD-10-CM |
| S43.491  | Other sprain of right shoulder joint   | Diagnosis     | ICD-10-CM |
| S43.491A | Other sprain of right shoulder joint, initial encounter                              | Diagnosis     | ICD-10-CM |
| S43.491D | Other sprain of right shoulder joint, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S43.491S | Other sprain of right shoulder joint, sequela  | Diagnosis     | ICD-10-CM |
| S43.492  | Other sprain of left shoulder joint  | Diagnosis     | ICD-10-CM |
| S43.492A | Other sprain of left shoulder joint, initial encounter                               | Diagnosis     | ICD-10-CM |
| S43.492D | Other sprain of left shoulder joint, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S43.492S | Other sprain of left shoulder joint, sequela   | Diagnosis     | ICD-10-CM |
| S43.499  | Other sprain of unspecified shoulder joint   | Diagnosis     | ICD-10-CM |
| S43.499A | Other sprain of unspecified shoulder joint, initial encounter                        | Diagnosis     | ICD-10-CM |
| S43.499D | Other sprain of unspecified shoulder joint, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S43.499S | Other sprain of unspecified shoulder joint, sequela                                  | Diagnosis     | ICD-10-CM |
| S43.5    | Sprain of acromioclavicular joint  | Diagnosis     | ICD-10-CM |
| S43.50   | Sprain of unspecified acromioclavicular joint  | Diagnosis     | ICD-10-CM |
| S43.50XA | Sprain of unspecified acromioclavicular joint, initial encounter                     | Diagnosis     | ICD-10-CM |
| S43.50XD | Sprain of unspecified acromioclavicular joint, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S43.50XS | Sprain of unspecified acromioclavicular joint, sequela                               | Diagnosis     | ICD-10-CM |
| S43.51   | Sprain of right acromioclavicular joint  | Diagnosis     | ICD-10-CM |
| S43.51XA | Sprain of right acromioclavicular joint, initial encounter                           | Diagnosis     | ICD-10-CM |
| S43.51XD | Sprain of right acromioclavicular joint, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S43.51XS | Sprain of right acromioclavicular joint, sequela                                     | Diagnosis     | ICD-10-CM |
| S43.52   | Sprain of left acromioclavicular joint   | Diagnosis     | ICD-10-CM |
| S43.52XA | Sprain of left acromioclavicular joint, initial encounter                            | Diagnosis     | ICD-10-CM |
| S43.52XD | Sprain of left acromioclavicular joint, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S43.52XS | Sprain of left acromioclavicular joint, sequela                                      | Diagnosis     | ICD-10-CM |
| S43.6    | Sprain of sternoclavicular joint   | Diagnosis     | ICD-10-CM |
| S43.60   | Sprain of unspecified sternoclavicular joint   | Diagnosis     | ICD-10-CM |
| S43.60XA | Sprain of unspecified sternoclavicular joint, initial encounter                      | Diagnosis     | ICD-10-CM |
| S43.60XD | Sprain of unspecified sternoclavicular joint, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S43.60XS | Sprain of unspecified sternoclavicular joint, sequela                                | Diagnosis     | ICD-10-CM |
| S43.61   | Sprain of right sternoclavicular joint   | Diagnosis     | ICD-10-CM |
| S43.61XA | Sprain of right sternoclavicular joint, initial encounter                            | Diagnosis     | ICD-10-CM |
| S43.61XD | Sprain of right sternoclavicular joint, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S43.61XS | Sprain of right sternoclavicular joint, sequela                                      | Diagnosis     | ICD-10-CM |
| S43.62   | Sprain of left sternoclavicular joint  | Diagnosis     | ICD-10-CM |
| S43.62XA | Sprain of left sternoclavicular joint, initial encounter                             | Diagnosis     | ICD-10-CM |
| S43.62XD | Sprain of left sternoclavicular joint, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S43.62XS | Sprain of left sternoclavicular joint, sequela                                       | Diagnosis     | ICD-10-CM |
| S43.8    | Sprain of other specified parts of shoulder girdle                                   | Diagnosis     | ICD-10-CM |
| S43.80   | Sprain of other specified parts of unspecified shoulder girdle                       | Diagnosis     | ICD-10-CM |
| S43.80XA | Sprain of other specified parts of unspecified shoulder girdle, initial encounter    | Diagnosis     | ICD-10-CM |
| S43.80XD | Sprain of other specified parts of unspecified shoulder girdle, subsequent encounter | Diagnosis     | ICD-10-CM |
| S43.80XS | Sprain of other specified parts of unspecified shoulder girdle, sequela              | Diagnosis     | ICD-10-CM |
| S43.81   | Sprain of other specified parts of right shoulder girdle                             | Diagnosis     | ICD-10-CM |
| S43.81XA | Sprain of other specified parts of right shoulder girdle, initial encounter          | Diagnosis     | ICD-10-CM |
| S43.81XD | Sprain of other specified parts of right shoulder girdle, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S43.81XS | Sprain of other specified parts of right shoulder girdle, sequela                    | Diagnosis     | ICD-10-CM |
| S43.82   | Sprain of other specified parts of left shoulder girdle                              | Diagnosis     | ICD-10-CM |
| S43.82XA | Sprain of other specified parts of left shoulder girdle, initial encounter           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S43.82XD | Sprain of other specified parts of left shoulder girdle, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S43.82XS | Sprain of other specified parts of left shoulder girdle, sequela                 | Diagnosis     | ICD-10-CM |
| S43.9    | Sprain of unspecified parts of shoulder girdle                                   | Diagnosis     | ICD-10-CM |
| S43.90   | Sprain of unspecified parts of unspecified shoulder girdle                       | Diagnosis     | ICD-10-CM |
| S43.90XA | Sprain of unspecified parts of unspecified shoulder girdle, initial encounter    | Diagnosis     | ICD-10-CM |
| S43.90XD | Sprain of unspecified parts of unspecified shoulder girdle, subsequent encounter | Diagnosis     | ICD-10-CM |
| S43.90XS | Sprain of unspecified parts of unspecified shoulder girdle, sequela              | Diagnosis     | ICD-10-CM |
| S43.91   | Sprain of unspecified parts of right shoulder girdle                             | Diagnosis     | ICD-10-CM |
| S43.91XA | Sprain of unspecified parts of right shoulder girdle, initial encounter          | Diagnosis     | ICD-10-CM |
| S43.91XD | Sprain of unspecified parts of right shoulder girdle, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S43.91XS | Sprain of unspecified parts of right shoulder girdle, sequela                    | Diagnosis     | ICD-10-CM |
| S43.92   | Sprain of unspecified parts of left shoulder girdle                              | Diagnosis     | ICD-10-CM |
| S43.92XA | Sprain of unspecified parts of left shoulder girdle, initial encounter           | Diagnosis     | ICD-10-CM |
| S43.92XD | Sprain of unspecified parts of left shoulder girdle, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S43.92XS | Sprain of unspecified parts of left shoulder girdle, sequela                     | Diagnosis     | ICD-10-CM |
| S44      | Injury of nerves at shoulder and upper arm level                                 | Diagnosis     | ICD-10-CM |
| S44.0    | Injury of ulnar nerve at upper arm level   | Diagnosis     | ICD-10-CM |
| S44.00   | Injury of ulnar nerve at upper arm level, unspecified arm                        | Diagnosis     | ICD-10-CM |
| S44.00XA | Injury of ulnar nerve at upper arm level, unspecified arm, initial encounter     | Diagnosis     | ICD-10-CM |
| S44.00XD | Injury of ulnar nerve at upper arm level, unspecified arm, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S44.00XS | Injury of ulnar nerve at upper arm level, unspecified arm, sequela               | Diagnosis     | ICD-10-CM |
| S44.01   | Injury of ulnar nerve at upper arm level, right arm                              | Diagnosis     | ICD-10-CM |
| S44.01XA | Injury of ulnar nerve at upper arm level, right arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S44.01XD | Injury of ulnar nerve at upper arm level, right arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S44.01XS | Injury of ulnar nerve at upper arm level, right arm, sequela                     | Diagnosis     | ICD-10-CM |
| S44.02   | Injury of ulnar nerve at upper arm level, left arm                               | Diagnosis     | ICD-10-CM |
| S44.02XA | Injury of ulnar nerve at upper arm level, left arm, initial encounter            | Diagnosis     | ICD-10-CM |
| S44.02XD | Injury of ulnar nerve at upper arm level, left arm, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S44.02XS | Injury of ulnar nerve at upper arm level, left arm, sequela                      | Diagnosis     | ICD-10-CM |
| S44.1    | Injury of median nerve at upper arm level  | Diagnosis     | ICD-10-CM |
| S44.10   | Injury of median nerve at upper arm level, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S44.10XA | Injury of median nerve at upper arm level, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S44.10XD | Injury of median nerve at upper arm level, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S44.10XS | Injury of median nerve at upper arm level, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S44.11   | Injury of median nerve at upper arm level, right arm                             | Diagnosis     | ICD-10-CM |
| S44.11XA | Injury of median nerve at upper arm level, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S44.11XD | Injury of median nerve at upper arm level, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S44.11XS | Injury of median nerve at upper arm level, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S44.12   | Injury of median nerve at upper arm level, left arm                              | Diagnosis     | ICD-10-CM |
| S44.12XA | Injury of median nerve at upper arm level, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S44.12XD | Injury of median nerve at upper arm level, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S44.12XS | Injury of median nerve at upper arm level, left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S44.2    | Injury of radial nerve at upper arm level  | Diagnosis     | ICD-10-CM |
| S44.20   | Injury of radial nerve at upper arm level, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S44.20XA | Injury of radial nerve at upper arm level, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S44.20XD | Injury of radial nerve at upper arm level, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S44.20XS | Injury of radial nerve at upper arm level, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S44.21   | Injury of radial nerve at upper arm level, right arm                             | Diagnosis     | ICD-10-CM |
| S44.21XA | Injury of radial nerve at upper arm level, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S44.21XD | Injury of radial nerve at upper arm level, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S44.21XS | Injury of radial nerve at upper arm level, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S44.22   | Injury of radial nerve at upper arm level, left arm  | Diagnosis     | ICD-10-CM |
| S44.22XA | Injury of radial nerve at upper arm level, left arm, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S44.22XD | Injury of radial nerve at upper arm level, left arm, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S44.22XS | Injury of radial nerve at upper arm level, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S44.3    | Injury of axillary nerve   | Diagnosis     | ICD-10-CM |
| S44.30   | Injury of axillary nerve, unspecified arm  | Diagnosis     | ICD-10-CM |
| S44.30XA | Injury of axillary nerve, unspecified arm, initial encounter   | Diagnosis     | ICD-10-CM |
| S44.30XD | Injury of axillary nerve, unspecified arm, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S44.30XS | Injury of axillary nerve, unspecified arm, sequela   | Diagnosis     | ICD-10-CM |
| S44.31   | Injury of axillary nerve, right arm  | Diagnosis     | ICD-10-CM |
| S44.31XA | Injury of axillary nerve, right arm, initial encounter   | Diagnosis     | ICD-10-CM |
| S44.31XD | Injury of axillary nerve, right arm, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S44.31XS | Injury of axillary nerve, right arm, sequela   | Diagnosis     | ICD-10-CM |
| S44.32   | Injury of axillary nerve, left arm   | Diagnosis     | ICD-10-CM |
| S44.32XA | Injury of axillary nerve, left arm, initial encounter  | Diagnosis     | ICD-10-CM |
| S44.32XD | Injury of axillary nerve, left arm, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S44.32XS | Injury of axillary nerve, left arm, sequela  | Diagnosis     | ICD-10-CM |
| S44.4    | Injury of musculocutaneous nerve   | Diagnosis     | ICD-10-CM |
| S44.40   | Injury of musculocutaneous nerve, unspecified arm  | Diagnosis     | ICD-10-CM |
| S44.40XA | Injury of musculocutaneous nerve, unspecified arm, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S44.40XD | Injury of musculocutaneous nerve, unspecified arm, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S44.40XS | Injury of musculocutaneous nerve, unspecified arm, sequela   | Diagnosis     | ICD-10-CM |
| S44.41   | Injury of musculocutaneous nerve, right arm  | Diagnosis     | ICD-10-CM |
| S44.41XA | Injury of musculocutaneous nerve, right arm, initial encounter   | Diagnosis     | ICD-10-CM |
| S44.41XD | Injury of musculocutaneous nerve, right arm, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S44.41XS | Injury of musculocutaneous nerve, right arm, sequela   | Diagnosis     | ICD-10-CM |
| S44.42   | Injury of musculocutaneous nerve, left arm   | Diagnosis     | ICD-10-CM |
| S44.42XA | Injury of musculocutaneous nerve, left arm, initial encounter  | Diagnosis     | ICD-10-CM |
| S44.42XD | Injury of musculocutaneous nerve, left arm, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S44.42XS | Injury of musculocutaneous nerve, left arm, sequela  | Diagnosis     | ICD-10-CM |
| S44.5    | Injury of cutaneous sensory nerve at shoulder and upper arm level  | Diagnosis     | ICD-10-CM |
| S44.50   | Injury of cutaneous sensory nerve at shoulder and upper arm level, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S44.50XA | Injury of cutaneous sensory nerve at shoulder and upper arm level, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S44.50XD | Injury of cutaneous sensory nerve at shoulder and upper arm level, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S44.50XS | Injury of cutaneous sensory nerve at shoulder and upper arm level, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S44.51   | Injury of cutaneous sensory nerve at shoulder and upper arm level, right arm                             | Diagnosis     | ICD-10-CM |
| S44.51XA | Injury of cutaneous sensory nerve at shoulder and upper arm level, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S44.51XD | Injury of cutaneous sensory nerve at shoulder and upper arm level, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S44.51XS | Injury of cutaneous sensory nerve at shoulder and upper arm level, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S44.52   | Injury of cutaneous sensory nerve at shoulder and upper arm level, left arm                              | Diagnosis     | ICD-10-CM |
| S44.52XA | Injury of cutaneous sensory nerve at shoulder and upper arm level, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S44.52XD | Injury of cutaneous sensory nerve at shoulder and upper arm level, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S44.52XS | Injury of cutaneous sensory nerve at shoulder and upper arm level, left arm, sequela               | Diagnosis     | ICD-10-CM |
| S44.8    | Injury of other nerves at shoulder and upper arm level   | Diagnosis     | ICD-10-CM |
| S44.8X   | Injury of other nerves at shoulder and upper arm level   | Diagnosis     | ICD-10-CM |
| S44.8X1  | Injury of other nerves at shoulder and upper arm level, right arm                                  | Diagnosis     | ICD-10-CM |
| S44.8X1A | Injury of other nerves at shoulder and upper arm level, right arm, initial encounter               | Diagnosis     | ICD-10-CM |
| S44.8X1D | Injury of other nerves at shoulder and upper arm level, right arm, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S44.8X1S | Injury of other nerves at shoulder and upper arm level, right arm, sequela                         | Diagnosis     | ICD-10-CM |
| S44.8X2  | Injury of other nerves at shoulder and upper arm level, left arm                                   | Diagnosis     | ICD-10-CM |
| S44.8X2A | Injury of other nerves at shoulder and upper arm level, left arm, initial encounter                | Diagnosis     | ICD-10-CM |
| S44.8X2D | Injury of other nerves at shoulder and upper arm level, left arm, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S44.8X2S | Injury of other nerves at shoulder and upper arm level, left arm, sequela                          | Diagnosis     | ICD-10-CM |
| S44.8X9  | Injury of other nerves at shoulder and upper arm level, unspecified arm                            | Diagnosis     | ICD-10-CM |
| S44.8X9A | Injury of other nerves at shoulder and upper arm level, unspecified arm, initial encounter         | Diagnosis     | ICD-10-CM |
| S44.8X9D | Injury of other nerves at shoulder and upper arm level, unspecified arm, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S44.8X9S | Injury of other nerves at shoulder and upper arm level, unspecified arm, sequela                   | Diagnosis     | ICD-10-CM |
| S44.9    | Injury of unspecified nerve at shoulder and upper arm level  | Diagnosis     | ICD-10-CM |
| S44.90   | Injury of unspecified nerve at shoulder and upper arm level, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S44.90XA | Injury of unspecified nerve at shoulder and upper arm level, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S44.90XD | Injury of unspecified nerve at shoulder and upper arm level, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S44.90XS | Injury of unspecified nerve at shoulder and upper arm level, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S44.91   | Injury of unspecified nerve at shoulder and upper arm level, right arm                             | Diagnosis     | ICD-10-CM |
| S44.91XA | Injury of unspecified nerve at shoulder and upper arm level, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S44.91XD | Injury of unspecified nerve at shoulder and upper arm level, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S44.91XS | Injury of unspecified nerve at shoulder and upper arm level, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S44.92   | Injury of unspecified nerve at shoulder and upper arm level, left arm                              | Diagnosis     | ICD-10-CM |
| S44.92XA | Injury of unspecified nerve at shoulder and upper arm level, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S44.92XD | Injury of unspecified nerve at shoulder and upper arm level, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S44.92XS | Injury of unspecified nerve at shoulder and upper arm level, left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S45      | Injury of blood vessels at shoulder and upper arm level  | Diagnosis     | ICD-10-CM |
| S45.0    | Injury of axillary artery  | Diagnosis     | ICD-10-CM |
| S45.00   | Unspecified injury of axillary artery  | Diagnosis     | ICD-10-CM |
| S45.001  | Unspecified injury of axillary artery, right side  | Diagnosis     | ICD-10-CM |
| S45.001A | Unspecified injury of axillary artery, right side, initial encounter                               | Diagnosis     | ICD-10-CM |
| S45.001D | Unspecified injury of axillary artery, right side, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S45.001S | Unspecified injury of axillary artery, right side, sequela   | Diagnosis     | ICD-10-CM |
| S45.002  | Unspecified injury of axillary artery, left side   | Diagnosis     | ICD-10-CM |
| S45.002A | Unspecified injury of axillary artery, left side, initial encounter                                | Diagnosis     | ICD-10-CM |
| S45.002D | Unspecified injury of axillary artery, left side, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S45.002S | Unspecified injury of axillary artery, left side, sequela  | Diagnosis     | ICD-10-CM |
| S45.009  | Unspecified injury of axillary artery, unspecified side  | Diagnosis     | ICD-10-CM |
| S45.009A | Unspecified injury of axillary artery, unspecified side, initial encounter                         | Diagnosis     | ICD-10-CM |
| S45.009D | Unspecified injury of axillary artery, unspecified side, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S45.009S | Unspecified injury of axillary artery, unspecified side, sequela                                   | Diagnosis     | ICD-10-CM |
| S45.01   | Laceration of axillary artery  | Diagnosis     | ICD-10-CM |
| S45.011  | Laceration of axillary artery, right side  | Diagnosis     | ICD-10-CM |
| S45.011A | Laceration of axillary artery, right side, initial encounter                                       | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S45.011D | Laceration of axillary artery, right side, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S45.011S | Laceration of axillary artery, right side, sequela                                | Diagnosis     | ICD-10-CM |
| S45.012  | Laceration of axillary artery, left side  | Diagnosis     | ICD-10-CM |
| S45.012A | Laceration of axillary artery, left side, initial encounter                       | Diagnosis     | ICD-10-CM |
| S45.012D | Laceration of axillary artery, left side, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S45.012S | Laceration of axillary artery, left side, sequela                                 | Diagnosis     | ICD-10-CM |
| S45.019  | Laceration of axillary artery, unspecified side                                   | Diagnosis     | ICD-10-CM |
| S45.019A | Laceration of axillary artery, unspecified side, initial encounter                | Diagnosis     | ICD-10-CM |
| S45.019D | Laceration of axillary artery, unspecified side, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S45.019S | Laceration of axillary artery, unspecified side, sequela                          | Diagnosis     | ICD-10-CM |
| S45.09   | Other specified injury of axillary artery   | Diagnosis     | ICD-10-CM |
| S45.091  | Other specified injury of axillary artery, right side                             | Diagnosis     | ICD-10-CM |
| S45.091A | Other specified injury of axillary artery, right side, initial encounter          | Diagnosis     | ICD-10-CM |
| S45.091D | Other specified injury of axillary artery, right side, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S45.091S | Other specified injury of axillary artery, right side, sequela                    | Diagnosis     | ICD-10-CM |
| S45.092  | Other specified injury of axillary artery, left side                              | Diagnosis     | ICD-10-CM |
| S45.092A | Other specified injury of axillary artery, left side, initial encounter           | Diagnosis     | ICD-10-CM |
| S45.092D | Other specified injury of axillary artery, left side, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S45.092S | Other specified injury of axillary artery, left side, sequela                     | Diagnosis     | ICD-10-CM |
| S45.099  | Other specified injury of axillary artery, unspecified side                       | Diagnosis     | ICD-10-CM |
| S45.099A | Other specified injury of axillary artery, unspecified side, initial encounter    | Diagnosis     | ICD-10-CM |
| S45.099D | Other specified injury of axillary artery, unspecified side, subsequent encounter | Diagnosis     | ICD-10-CM |
| S45.099S | Other specified injury of axillary artery, unspecified side, sequela              | Diagnosis     | ICD-10-CM |
| S45.1    | Injury of brachial artery   | Diagnosis     | ICD-10-CM |
| S45.10   | Unspecified injury of brachial artery   | Diagnosis     | ICD-10-CM |
| S45.101  | Unspecified injury of brachial artery, right side                                 | Diagnosis     | ICD-10-CM |
| S45.101A | Unspecified injury of brachial artery, right side, initial encounter              | Diagnosis     | ICD-10-CM |
| S45.101D | Unspecified injury of brachial artery, right side, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S45.101S | Unspecified injury of brachial artery, right side, sequela                        | Diagnosis     | ICD-10-CM |
| S45.102  | Unspecified injury of brachial artery, left side                                  | Diagnosis     | ICD-10-CM |
| S45.102A | Unspecified injury of brachial artery, left side, initial encounter               | Diagnosis     | ICD-10-CM |
| S45.102D | Unspecified injury of brachial artery, left side, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S45.102S | Unspecified injury of brachial artery, left side, sequela                         | Diagnosis     | ICD-10-CM |
| S45.109  | Unspecified injury of brachial artery, unspecified side                           | Diagnosis     | ICD-10-CM |
| S45.109A | Unspecified injury of brachial artery, unspecified side, initial encounter        | Diagnosis     | ICD-10-CM |
| S45.109D | Unspecified injury of brachial artery, unspecified side, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S45.109S | Unspecified injury of brachial artery, unspecified side, sequela                  | Diagnosis     | ICD-10-CM |
| S45.11   | Laceration of brachial artery   | Diagnosis     | ICD-10-CM |
| S45.111  | Laceration of brachial artery, right side   | Diagnosis     | ICD-10-CM |
| S45.111A | Laceration of brachial artery, right side, initial encounter                      | Diagnosis     | ICD-10-CM |
| S45.111D | Laceration of brachial artery, right side, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S45.111S | Laceration of brachial artery, right side, sequela                                | Diagnosis     | ICD-10-CM |
| S45.112  | Laceration of brachial artery, left side  | Diagnosis     | ICD-10-CM |
| S45.112A | Laceration of brachial artery, left side, initial encounter                       | Diagnosis     | ICD-10-CM |
| S45.112D | Laceration of brachial artery, left side, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S45.112S | Laceration of brachial artery, left side, sequela                                 | Diagnosis     | ICD-10-CM |
| S45.119  | Laceration of brachial artery, unspecified side                                   | Diagnosis     | ICD-10-CM |
| S45.119A | Laceration of brachial artery, unspecified side, initial encounter                | Diagnosis     | ICD-10-CM |
| S45.119D | Laceration of brachial artery, unspecified side, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S45.119S | Laceration of brachial artery, unspecified side, sequela                          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S45.19   | Other specified injury of brachial artery   | Diagnosis     | ICD-10-CM |
| S45.191  | Other specified injury of brachial artery, right side                                   | Diagnosis     | ICD-10-CM |
| S45.191A | Other specified injury of brachial artery, right side, initial encounter                | Diagnosis     | ICD-10-CM |
| S45.191D | Other specified injury of brachial artery, right side, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S45.191S | Other specified injury of brachial artery, right side, sequela                          | Diagnosis     | ICD-10-CM |
| S45.192  | Other specified injury of brachial artery, left side                                    | Diagnosis     | ICD-10-CM |
| S45.192A | Other specified injury of brachial artery, left side, initial encounter                 | Diagnosis     | ICD-10-CM |
| S45.192D | Other specified injury of brachial artery, left side, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S45.192S | Other specified injury of brachial artery, left side, sequela                           | Diagnosis     | ICD-10-CM |
| S45.199  | Other specified injury of brachial artery, unspecified side                             | Diagnosis     | ICD-10-CM |
| S45.199A | Other specified injury of brachial artery, unspecified side, initial encounter          | Diagnosis     | ICD-10-CM |
| S45.199D | Other specified injury of brachial artery, unspecified side, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S45.199S | Other specified injury of brachial artery, unspecified side, sequela                    | Diagnosis     | ICD-10-CM |
| S45.2    | Injury of axillary or brachial vein   | Diagnosis     | ICD-10-CM |
| S45.20   | Unspecified injury of axillary or brachial vein   | Diagnosis     | ICD-10-CM |
| S45.201  | Unspecified injury of axillary or brachial vein, right side                             | Diagnosis     | ICD-10-CM |
| S45.201A | Unspecified injury of axillary or brachial vein, right side, initial encounter          | Diagnosis     | ICD-10-CM |
| S45.201D | Unspecified injury of axillary or brachial vein, right side, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S45.201S | Unspecified injury of axillary or brachial vein, right side, sequela                    | Diagnosis     | ICD-10-CM |
| S45.202  | Unspecified injury of axillary or brachial vein, left side                              | Diagnosis     | ICD-10-CM |
| S45.202A | Unspecified injury of axillary or brachial vein, left side, initial encounter           | Diagnosis     | ICD-10-CM |
| S45.202D | Unspecified injury of axillary or brachial vein, left side, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S45.202S | Unspecified injury of axillary or brachial vein, left side, sequela                     | Diagnosis     | ICD-10-CM |
| S45.209  | Unspecified injury of axillary or brachial vein, unspecified side                       | Diagnosis     | ICD-10-CM |
| S45.209A | Unspecified injury of axillary or brachial vein, unspecified side, initial encounter    | Diagnosis     | ICD-10-CM |
| S45.209D | Unspecified injury of axillary or brachial vein, unspecified side, subsequent encounter | Diagnosis     | ICD-10-CM |
| S45.209S | Unspecified injury of axillary or brachial vein, unspecified side, sequela              | Diagnosis     | ICD-10-CM |
| S45.21   | Laceration of axillary or brachial vein   | Diagnosis     | ICD-10-CM |
| S45.211  | Laceration of axillary or brachial vein, right side                                     | Diagnosis     | ICD-10-CM |
| S45.211A | Laceration of axillary or brachial vein, right side, initial encounter                  | Diagnosis     | ICD-10-CM |
| S45.211D | Laceration of axillary or brachial vein, right side, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S45.211S | Laceration of axillary or brachial vein, right side, sequela                            | Diagnosis     | ICD-10-CM |
| S45.212  | Laceration of axillary or brachial vein, left side                                      | Diagnosis     | ICD-10-CM |
| S45.212A | Laceration of axillary or brachial vein, left side, initial encounter                   | Diagnosis     | ICD-10-CM |
| S45.212D | Laceration of axillary or brachial vein, left side, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S45.212S | Laceration of axillary or brachial vein, left side, sequela                             | Diagnosis     | ICD-10-CM |
| S45.219  | Laceration of axillary or brachial vein, unspecified side                               | Diagnosis     | ICD-10-CM |
| S45.219A | Laceration of axillary or brachial vein, unspecified side, initial encounter            | Diagnosis     | ICD-10-CM |
| S45.219D | Laceration of axillary or brachial vein, unspecified side, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S45.219S | Laceration of axillary or brachial vein, unspecified side, sequela                      | Diagnosis     | ICD-10-CM |
| S45.29   | Other specified injury of axillary or brachial vein                                     | Diagnosis     | ICD-10-CM |
| S45.291  | Other specified injury of axillary or brachial vein, right side                         | Diagnosis     | ICD-10-CM |
| S45.291A | Other specified injury of axillary or brachial vein, right side, initial encounter      | Diagnosis     | ICD-10-CM |
| S45.291D | Other specified injury of axillary or brachial vein, right side, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S45.291S | Other specified injury of axillary or brachial vein, right side, sequela                | Diagnosis     | ICD-10-CM |
| S45.292  | Other specified injury of axillary or brachial vein, left side                          | Diagnosis     | ICD-10-CM |
| S45.292A | Other specified injury of axillary or brachial vein, left side, initial encounter       | Diagnosis     | ICD-10-CM |
| S45.292D | Other specified injury of axillary or brachial vein, left side, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S45.292S | Other specified injury of axillary or brachial vein, left side, sequela                 | Diagnosis     | ICD-10-CM |
| S45.299  | Other specified injury of axillary or brachial vein, unspecified side                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S45.299A | Other specified injury of axillary or brachial vein, unspecified side, initial encounter                      | Diagnosis     | ICD-10-CM |
| S45.299D | Other specified injury of axillary or brachial vein, unspecified side, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S45.299S | Other specified injury of axillary or brachial vein, unspecified side, sequela                                | Diagnosis     | ICD-10-CM |
| S45.3    | Injury of superficial vein at shoulder and upper arm level  | Diagnosis     | ICD-10-CM |
| S45.30   | Unspecified injury of superficial vein at shoulder and upper arm level  | Diagnosis     | ICD-10-CM |
| S45.301  | Unspecified injury of superficial vein at shoulder and upper arm level, right arm                             | Diagnosis     | ICD-10-CM |
| S45.301A | Unspecified injury of superficial vein at shoulder and upper arm level, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S45.301D | Unspecified injury of superficial vein at shoulder and upper arm level, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S45.301S | Unspecified injury of superficial vein at shoulder and upper arm level, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S45.302  | Unspecified injury of superficial vein at shoulder and upper arm level, left arm                              | Diagnosis     | ICD-10-CM |
| S45.302A | Unspecified injury of superficial vein at shoulder and upper arm level, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S45.302D | Unspecified injury of superficial vein at shoulder and upper arm level, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S45.302S | Unspecified injury of superficial vein at shoulder and upper arm level, left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S45.309  | Unspecified injury of superficial vein at shoulder and upper arm level, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S45.309A | Unspecified injury of superficial vein at shoulder and upper arm level, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S45.309D | Unspecified injury of superficial vein at shoulder and upper arm level, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S45.309S | Unspecified injury of superficial vein at shoulder and upper arm level, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S45.31   | Laceration of superficial vein at shoulder and upper arm level  | Diagnosis     | ICD-10-CM |
| S45.311  | Laceration of superficial vein at shoulder and upper arm level, right arm                                     | Diagnosis     | ICD-10-CM |
| S45.311A | Laceration of superficial vein at shoulder and upper arm level, right arm, initial encounter                  | Diagnosis     | ICD-10-CM |
| S45.311D | Laceration of superficial vein at shoulder and upper arm level, right arm, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S45.311S | Laceration of superficial vein at shoulder and upper arm level, right arm, sequela                            | Diagnosis     | ICD-10-CM |
| S45.312  | Laceration of superficial vein at shoulder and upper arm level, left arm                                      | Diagnosis     | ICD-10-CM |
| S45.312A | Laceration of superficial vein at shoulder and upper arm level, left arm, initial encounter                   | Diagnosis     | ICD-10-CM |
| S45.312D | Laceration of superficial vein at shoulder and upper arm level, left arm, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S45.312S | Laceration of superficial vein at shoulder and upper arm level, left arm, sequela                             | Diagnosis     | ICD-10-CM |
| S45.319  | Laceration of superficial vein at shoulder and upper arm level, unspecified arm                               | Diagnosis     | ICD-10-CM |
| S45.319A | Laceration of superficial vein at shoulder and upper arm level, unspecified arm, initial encounter            | Diagnosis     | ICD-10-CM |
| S45.319D | Laceration of superficial vein at shoulder and upper arm level, unspecified arm, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S45.319S | Laceration of superficial vein at shoulder and upper arm level, unspecified arm, sequela                      | Diagnosis     | ICD-10-CM |
| S45.39   | Other specified injury of superficial vein at shoulder and upper arm level                                    | Diagnosis     | ICD-10-CM |
| S45.391  | Other specified injury of superficial vein at shoulder and upper arm level, right arm                         | Diagnosis     | ICD-10-CM |
| S45.391A | Other specified injury of superficial vein at shoulder and upper arm level, right arm, initial encounter      | Diagnosis     | ICD-10-CM |
| S45.391D | Other specified injury of superficial vein at shoulder and upper arm level, right arm, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S45.391S | Other specified injury of superficial vein at shoulder and upper arm level, right arm, sequela                | Diagnosis     | ICD-10-CM |
| S45.392  | Other specified injury of superficial vein at shoulder and upper arm level, left arm                          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S45.392A | Other specified injury of superficial vein at shoulder and upper arm level, left arm, initial encounter                    | Diagnosis     | ICD-10-CM |
| S45.392D | Other specified injury of superficial vein at shoulder and upper arm level, left arm, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S45.392S | Other specified injury of superficial vein at shoulder and upper arm level, left arm, sequela                              | Diagnosis     | ICD-10-CM |
| S45.399  | Other specified injury of superficial vein at shoulder and upper arm level, unspecified arm                                | Diagnosis     | ICD-10-CM |
| S45.399A | Other specified injury of superficial vein at shoulder and upper arm level, unspecified arm, initial encounter             | Diagnosis     | ICD-10-CM |
| S45.399D | Other specified injury of superficial vein at shoulder and upper arm level, unspecified arm, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S45.399S | Other specified injury of superficial vein at shoulder and upper arm level, unspecified arm, sequela                       | Diagnosis     | ICD-10-CM |
| S45.8    | Injury of other specified blood vessels at shoulder and upper arm level  | Diagnosis     | ICD-10-CM |
| S45.80   | Unspecified injury of other specified blood vessels at shoulder and upper arm level  | Diagnosis     | ICD-10-CM |
| S45.801  | Unspecified injury of other specified blood vessels at shoulder and upper arm level, right arm                             | Diagnosis     | ICD-10-CM |
| S45.801A | Unspecified injury of other specified blood vessels at shoulder and upper arm level, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S45.801D | Unspecified injury of other specified blood vessels at shoulder and upper arm level, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S45.801S | Unspecified injury of other specified blood vessels at shoulder and upper arm level, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S45.802  | Unspecified injury of other specified blood vessels at shoulder and upper arm level, left arm                              | Diagnosis     | ICD-10-CM |
| S45.802A | Unspecified injury of other specified blood vessels at shoulder and upper arm level, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S45.802D | Unspecified injury of other specified blood vessels at shoulder and upper arm level, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S45.802S | Unspecified injury of other specified blood vessels at shoulder and upper arm level, left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S45.809  | Unspecified injury of other specified blood vessels at shoulder and upper arm level, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S45.809A | Unspecified injury of other specified blood vessels at shoulder and upper arm level, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S45.809D | Unspecified injury of other specified blood vessels at shoulder and upper arm level, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S45.809S | Unspecified injury of other specified blood vessels at shoulder and upper arm level, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S45.81   | Laceration of other specified blood vessels at shoulder and upper arm level  | Diagnosis     | ICD-10-CM |
| S45.811  | Laceration of other specified blood vessels at shoulder and upper arm level, right arm                                     | Diagnosis     | ICD-10-CM |
| S45.811A | Laceration of other specified blood vessels at shoulder and upper arm level, right arm, initial encounter                  | Diagnosis     | ICD-10-CM |
| S45.811D | Laceration of other specified blood vessels at shoulder and upper arm level, right arm, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S45.811S | Laceration of other specified blood vessels at shoulder and upper arm level, right arm, sequela                            | Diagnosis     | ICD-10-CM |
| S45.812  | Laceration of other specified blood vessels at shoulder and upper arm level, left arm                                      | Diagnosis     | ICD-10-CM |
| S45.812A | Laceration of other specified blood vessels at shoulder and upper arm level, left arm, initial encounter                   | Diagnosis     | ICD-10-CM |
| S45.812D | Laceration of other specified blood vessels at shoulder and upper arm level, left arm, subsequent encounter                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S45.812S | Laceration of other specified blood vessels at shoulder and upper arm level, left arm, sequela                                 | Diagnosis     | ICD-10-CM |
| S45.819  | Laceration of other specified blood vessels at shoulder and upper arm level, unspecified arm                                   | Diagnosis     | ICD-10-CM |
| S45.819A | Laceration of other specified blood vessels at shoulder and upper arm level, unspecified arm, initial encounter                | Diagnosis     | ICD-10-CM |
| S45.819D | Laceration of other specified blood vessels at shoulder and upper arm level, unspecified arm, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S45.819S | Laceration of other specified blood vessels at shoulder and upper arm level, unspecified arm, sequela                          | Diagnosis     | ICD-10-CM |
| S45.89   | Other specified injury of other specified blood vessels at shoulder and upper arm level  | Diagnosis     | ICD-10-CM |
| S45.891  | Other specified injury of other specified blood vessels at shoulder and upper arm level, right arm                             | Diagnosis     | ICD-10-CM |
| S45.891A | Other specified injury of other specified blood vessels at shoulder and upper arm level, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S45.891D | Other specified injury of other specified blood vessels at shoulder and upper arm level, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S45.891S | Other specified injury of other specified blood vessels at shoulder and upper arm level, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S45.892  | Other specified injury of other specified blood vessels at shoulder and upper arm level, left arm                              | Diagnosis     | ICD-10-CM |
| S45.892A | Other specified injury of other specified blood vessels at shoulder and upper arm level, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S45.892D | Other specified injury of other specified blood vessels at shoulder and upper arm level, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S45.892S | Other specified injury of other specified blood vessels at shoulder and upper arm level, left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S45.899  | Other specified injury of other specified blood vessels at shoulder and upper arm level, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S45.899A | Other specified injury of other specified blood vessels at shoulder and upper arm level, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S45.899D | Other specified injury of other specified blood vessels at shoulder and upper arm level, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S45.899S | Other specified injury of other specified blood vessels at shoulder and upper arm level, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S45.9    | Injury of unspecified blood vessel at shoulder and upper arm level   | Diagnosis     | ICD-10-CM |
| S45.90   | Unspecified injury of unspecified blood vessel at shoulder and upper arm level   | Diagnosis     | ICD-10-CM |
| S45.901  | Unspecified injury of unspecified blood vessel at shoulder and upper arm level, right arm                                      | Diagnosis     | ICD-10-CM |
| S45.901A | Unspecified injury of unspecified blood vessel at shoulder and upper arm level, right arm, initial encounter                   | Diagnosis     | ICD-10-CM |
| S45.901D | Unspecified injury of unspecified blood vessel at shoulder and upper arm level, right arm, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S45.901S | Unspecified injury of unspecified blood vessel at shoulder and upper arm level, right arm, sequela                             | Diagnosis     | ICD-10-CM |
| S45.902  | Unspecified injury of unspecified blood vessel at shoulder and upper arm level, left arm                                       | Diagnosis     | ICD-10-CM |
| S45.902A | Unspecified injury of unspecified blood vessel at shoulder and upper arm level, left arm, initial encounter                    | Diagnosis     | ICD-10-CM |
| S45.902D | Unspecified injury of unspecified blood vessel at shoulder and upper arm level, left arm, subsequent encounter                 | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S45.902S | Unspecified injury of unspecified blood vessel at shoulder and upper arm level, left arm, sequela                      | Diagnosis     | ICD-10-CM |
| S45.909  | Unspecified injury of unspecified blood vessel at shoulder and upper arm level, unspecified arm                        | Diagnosis     | ICD-10-CM |
| S45.909A | Unspecified injury of unspecified blood vessel at shoulder and upper arm level, unspecified arm, initial encounter     | Diagnosis     | ICD-10-CM |
| S45.909D | Unspecified injury of unspecified blood vessel at shoulder and upper arm level, unspecified arm, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S45.909S | Unspecified injury of unspecified blood vessel at shoulder and upper arm level, unspecified arm, sequela               | Diagnosis     | ICD-10-CM |
| S45.91   | Laceration of unspecified blood vessel at shoulder and upper arm level   | Diagnosis     | ICD-10-CM |
| S45.911  | Laceration of unspecified blood vessel at shoulder and upper arm level, right arm                                      | Diagnosis     | ICD-10-CM |
| S45.911A | Laceration of unspecified blood vessel at shoulder and upper arm level, right arm, initial encounter                   | Diagnosis     | ICD-10-CM |
| S45.911D | Laceration of unspecified blood vessel at shoulder and upper arm level, right arm, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S45.911S | Laceration of unspecified blood vessel at shoulder and upper arm level, right arm, sequela                             | Diagnosis     | ICD-10-CM |
| S45.912  | Laceration of unspecified blood vessel at shoulder and upper arm level, left arm                                       | Diagnosis     | ICD-10-CM |
| S45.912A | Laceration of unspecified blood vessel at shoulder and upper arm level, left arm, initial encounter                    | Diagnosis     | ICD-10-CM |
| S45.912D | Laceration of unspecified blood vessel at shoulder and upper arm level, left arm, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S45.912S | Laceration of unspecified blood vessel at shoulder and upper arm level, left arm, sequela                              | Diagnosis     | ICD-10-CM |
| S45.919  | Laceration of unspecified blood vessel at shoulder and upper arm level, unspecified arm                                | Diagnosis     | ICD-10-CM |
| S45.919A | Laceration of unspecified blood vessel at shoulder and upper arm level, unspecified arm, initial encounter             | Diagnosis     | ICD-10-CM |
| S45.919D | Laceration of unspecified blood vessel at shoulder and upper arm level, unspecified arm, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S45.919S | Laceration of unspecified blood vessel at shoulder and upper arm level, unspecified arm, sequela                       | Diagnosis     | ICD-10-CM |
| S45.99   | Other specified injury of unspecified blood vessel at shoulder and upper arm level                                     | Diagnosis     | ICD-10-CM |
| S45.991  | Other specified injury of unspecified blood vessel at shoulder and upper arm level, right arm                          | Diagnosis     | ICD-10-CM |
| S45.991A | Other specified injury of unspecified blood vessel at shoulder and upper arm level, right arm, initial encounter       | Diagnosis     | ICD-10-CM |
| S45.991D | Other specified injury of unspecified blood vessel at shoulder and upper arm level, right arm, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S45.991S | Other specified injury of unspecified blood vessel at shoulder and upper arm level, right arm, sequela                 | Diagnosis     | ICD-10-CM |
| S45.992  | Other specified injury of unspecified blood vessel at shoulder and upper arm level, left arm                           | Diagnosis     | ICD-10-CM |
| S45.992A | Other specified injury of unspecified blood vessel at shoulder and upper arm level, left arm, initial encounter        | Diagnosis     | ICD-10-CM |
| S45.992D | Other specified injury of unspecified blood vessel at shoulder and upper arm level, left arm, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S45.992S | Other specified injury of unspecified blood vessel at shoulder and upper arm level, left arm, sequela                  | Diagnosis     | ICD-10-CM |
| S45.999  | Other specified injury of unspecified blood vessel at shoulder and upper arm level, unspecified arm                    | Diagnosis     | ICD-10-CM |
| S45.999A | Other specified injury of unspecified blood vessel at shoulder and upper arm level, unspecified arm, initial encounter | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S45.999D | Other specified injury of unspecified blood vessel at shoulder and upper arm level, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S45.999S | Other specified injury of unspecified blood vessel at shoulder and upper arm level, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S46      | Injury of muscle, fascia and tendon at shoulder and upper arm level   | Diagnosis     | ICD-10-CM |
| S46.0    | Injury of muscle(s) and tendon(s) of the rotator cuff of shoulder   | Diagnosis     | ICD-10-CM |
| S46.00   | Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of shoulder   | Diagnosis     | ICD-10-CM |
| S46.001  | Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of right shoulder                                       | Diagnosis     | ICD-10-CM |
| S46.001A | Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of right shoulder, initial encounter                    | Diagnosis     | ICD-10-CM |
| S46.001D | Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of right shoulder, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S46.001S | Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of right shoulder, sequela                              | Diagnosis     | ICD-10-CM |
| S46.002  | Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of left shoulder  | Diagnosis     | ICD-10-CM |
| S46.002A | Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of left shoulder, initial encounter                     | Diagnosis     | ICD-10-CM |
| S46.002D | Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of left shoulder, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S46.002S | Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of left shoulder, sequela                               | Diagnosis     | ICD-10-CM |
| S46.009  | Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of unspecified shoulder                                 | Diagnosis     | ICD-10-CM |
| S46.009A | Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of unspecified shoulder, initial encounter              | Diagnosis     | ICD-10-CM |
| S46.009D | Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of unspecified shoulder, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S46.009S | Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of unspecified shoulder, sequela                        | Diagnosis     | ICD-10-CM |
| S46.01   | Strain of muscle(s) and tendon(s) of the rotator cuff of shoulder   | Diagnosis     | ICD-10-CM |
| S46.011  | Strain of muscle(s) and tendon(s) of the rotator cuff of right shoulder   | Diagnosis     | ICD-10-CM |
| S46.011A | Strain of muscle(s) and tendon(s) of the rotator cuff of right shoulder, initial encounter                                | Diagnosis     | ICD-10-CM |
| S46.011D | Strain of muscle(s) and tendon(s) of the rotator cuff of right shoulder, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S46.011S | Strain of muscle(s) and tendon(s) of the rotator cuff of right shoulder, sequela  | Diagnosis     | ICD-10-CM |
| S46.012  | Strain of muscle(s) and tendon(s) of the rotator cuff of left shoulder  | Diagnosis     | ICD-10-CM |
| S46.012A | Strain of muscle(s) and tendon(s) of the rotator cuff of left shoulder, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S46.012D | Strain of muscle(s) and tendon(s) of the rotator cuff of left shoulder, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S46.012S | Strain of muscle(s) and tendon(s) of the rotator cuff of left shoulder, sequela   | Diagnosis     | ICD-10-CM |
| S46.019  | Strain of muscle(s) and tendon(s) of the rotator cuff of unspecified shoulder   | Diagnosis     | ICD-10-CM |
| S46.019A | Strain of muscle(s) and tendon(s) of the rotator cuff of unspecified shoulder, initial encounter                          | Diagnosis     | ICD-10-CM |
| S46.019D | Strain of muscle(s) and tendon(s) of the rotator cuff of unspecified shoulder, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S46.019S | Strain of muscle(s) and tendon(s) of the rotator cuff of unspecified shoulder, sequela                                    | Diagnosis     | ICD-10-CM |
| S46.02   | Laceration of muscle(s) and tendon(s) of the rotator cuff of shoulder   | Diagnosis     | ICD-10-CM |
| S46.021  | Laceration of muscle(s) and tendon(s) of the rotator cuff of right shoulder   | Diagnosis     | ICD-10-CM |
| S46.021A | Laceration of muscle(s) and tendon(s) of the rotator cuff of right shoulder, initial encounter                            | Diagnosis     | ICD-10-CM |
| S46.021D | Laceration of muscle(s) and tendon(s) of the rotator cuff of right shoulder, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S46.021S | Laceration of muscle(s) and tendon(s) of the rotator cuff of right shoulder, sequela                                      | Diagnosis     | ICD-10-CM |
| S46.022  | Laceration of muscle(s) and tendon(s) of the rotator cuff of left shoulder  | Diagnosis     | ICD-10-CM |
| S46.022A | Laceration of muscle(s) and tendon(s) of the rotator cuff of left shoulder, initial encounter                             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S46.022D | Laceration of muscle(s) and tendon(s) of the rotator cuff of left shoulder, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S46.022S | Laceration of muscle(s) and tendon(s) of the rotator cuff of left shoulder, sequela                           | Diagnosis     | ICD-10-CM |
| S46.029  | Laceration of muscle(s) and tendon(s) of the rotator cuff of unspecified shoulder                             | Diagnosis     | ICD-10-CM |
| S46.029A | Laceration of muscle(s) and tendon(s) of the rotator cuff of unspecified shoulder, initial encounter          | Diagnosis     | ICD-10-CM |
| S46.029D | Laceration of muscle(s) and tendon(s) of the rotator cuff of unspecified shoulder, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S46.029S | Laceration of muscle(s) and tendon(s) of the rotator cuff of unspecified shoulder, sequela                    | Diagnosis     | ICD-10-CM |
| S46.09   | Other injury of muscle(s) and tendon(s) of the rotator cuff of shoulder                                       | Diagnosis     | ICD-10-CM |
| S46.091  | Other injury of muscle(s) and tendon(s) of the rotator cuff of right shoulder                                 | Diagnosis     | ICD-10-CM |
| S46.091A | Other injury of muscle(s) and tendon(s) of the rotator cuff of right shoulder, initial encounter              | Diagnosis     | ICD-10-CM |
| S46.091D | Other injury of muscle(s) and tendon(s) of the rotator cuff of right shoulder, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S46.091S | Other injury of muscle(s) and tendon(s) of the rotator cuff of right shoulder, sequela                        | Diagnosis     | ICD-10-CM |
| S46.092  | Other injury of muscle(s) and tendon(s) of the rotator cuff of left shoulder                                  | Diagnosis     | ICD-10-CM |
| S46.092A | Other injury of muscle(s) and tendon(s) of the rotator cuff of left shoulder, initial encounter               | Diagnosis     | ICD-10-CM |
| S46.092D | Other injury of muscle(s) and tendon(s) of the rotator cuff of left shoulder, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S46.092S | Other injury of muscle(s) and tendon(s) of the rotator cuff of left shoulder, sequela                         | Diagnosis     | ICD-10-CM |
| S46.099  | Other injury of muscle(s) and tendon(s) of the rotator cuff of unspecified shoulder                           | Diagnosis     | ICD-10-CM |
| S46.099A | Other injury of muscle(s) and tendon(s) of the rotator cuff of unspecified shoulder, initial encounter        | Diagnosis     | ICD-10-CM |
| S46.099D | Other injury of muscle(s) and tendon(s) of the rotator cuff of unspecified shoulder, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S46.099S | Other injury of muscle(s) and tendon(s) of the rotator cuff of unspecified shoulder, sequela                  | Diagnosis     | ICD-10-CM |
| S46.1    | Injury of muscle, fascia and tendon of long head of biceps  | Diagnosis     | ICD-10-CM |
| S46.10   | Unspecified injury of muscle, fascia and tendon of long head of biceps  | Diagnosis     | ICD-10-CM |
| S46.101  | Unspecified injury of muscle, fascia and tendon of long head of biceps, right arm                             | Diagnosis     | ICD-10-CM |
| S46.101A | Unspecified injury of muscle, fascia and tendon of long head of biceps, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S46.101D | Unspecified injury of muscle, fascia and tendon of long head of biceps, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S46.101S | Unspecified injury of muscle, fascia and tendon of long head of biceps, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S46.102  | Unspecified injury of muscle, fascia and tendon of long head of biceps, left arm                              | Diagnosis     | ICD-10-CM |
| S46.102A | Unspecified injury of muscle, fascia and tendon of long head of biceps, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S46.102D | Unspecified injury of muscle, fascia and tendon of long head of biceps, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S46.102S | Unspecified injury of muscle, fascia and tendon of long head of biceps, left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S46.109  | Unspecified injury of muscle, fascia and tendon of long head of biceps, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S46.109A | Unspecified injury of muscle, fascia and tendon of long head of biceps, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S46.109D | Unspecified injury of muscle, fascia and tendon of long head of biceps, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S46.109S | Unspecified injury of muscle, fascia and tendon of long head of biceps, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S46.11   | Strain of muscle, fascia and tendon of long head of biceps  | Diagnosis     | ICD-10-CM |
| S46.111  | Strain of muscle, fascia and tendon of long head of biceps, right arm   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S46.111A | Strain of muscle, fascia and tendon of long head of biceps, right arm, initial encounter                | Diagnosis     | ICD-10-CM |
| S46.111D | Strain of muscle, fascia and tendon of long head of biceps, right arm, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S46.111S | Strain of muscle, fascia and tendon of long head of biceps, right arm, sequela                          | Diagnosis     | ICD-10-CM |
| S46.112  | Strain of muscle, fascia and tendon of long head of biceps, left arm                                    | Diagnosis     | ICD-10-CM |
| S46.112A | Strain of muscle, fascia and tendon of long head of biceps, left arm, initial encounter                 | Diagnosis     | ICD-10-CM |
| S46.112D | Strain of muscle, fascia and tendon of long head of biceps, left arm, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S46.112S | Strain of muscle, fascia and tendon of long head of biceps, left arm, sequela                           | Diagnosis     | ICD-10-CM |
| S46.119  | Strain of muscle, fascia and tendon of long head of biceps, unspecified arm                             | Diagnosis     | ICD-10-CM |
| S46.119A | Strain of muscle, fascia and tendon of long head of biceps, unspecified arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S46.119D | Strain of muscle, fascia and tendon of long head of biceps, unspecified arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S46.119S | Strain of muscle, fascia and tendon of long head of biceps, unspecified arm, sequela                    | Diagnosis     | ICD-10-CM |
| S46.12   | Laceration of muscle, fascia and tendon of long head of biceps  | Diagnosis     | ICD-10-CM |
| S46.121  | Laceration of muscle, fascia and tendon of long head of biceps, right arm                               | Diagnosis     | ICD-10-CM |
| S46.121A | Laceration of muscle, fascia and tendon of long head of biceps, right arm, initial encounter            | Diagnosis     | ICD-10-CM |
| S46.121D | Laceration of muscle, fascia and tendon of long head of biceps, right arm, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S46.121S | Laceration of muscle, fascia and tendon of long head of biceps, right arm, sequela                      | Diagnosis     | ICD-10-CM |
| S46.122  | Laceration of muscle, fascia and tendon of long head of biceps, left arm                                | Diagnosis     | ICD-10-CM |
| S46.122A | Laceration of muscle, fascia and tendon of long head of biceps, left arm, initial encounter             | Diagnosis     | ICD-10-CM |
| S46.122D | Laceration of muscle, fascia and tendon of long head of biceps, left arm, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S46.122S | Laceration of muscle, fascia and tendon of long head of biceps, left arm, sequela                       | Diagnosis     | ICD-10-CM |
| S46.129  | Laceration of muscle, fascia and tendon of long head of biceps, unspecified arm                         | Diagnosis     | ICD-10-CM |
| S46.129A | Laceration of muscle, fascia and tendon of long head of biceps, unspecified arm, initial encounter      | Diagnosis     | ICD-10-CM |
| S46.129D | Laceration of muscle, fascia and tendon of long head of biceps, unspecified arm, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S46.129S | Laceration of muscle, fascia and tendon of long head of biceps, unspecified arm, sequela                | Diagnosis     | ICD-10-CM |
| S46.19   | Other injury of muscle, fascia and tendon of long head of biceps  | Diagnosis     | ICD-10-CM |
| S46.191  | Other injury of muscle, fascia and tendon of long head of biceps, right arm                             | Diagnosis     | ICD-10-CM |
| S46.191A | Other injury of muscle, fascia and tendon of long head of biceps, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S46.191D | Other injury of muscle, fascia and tendon of long head of biceps, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S46.191S | Other injury of muscle, fascia and tendon of long head of biceps, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S46.192  | Other injury of muscle, fascia and tendon of long head of biceps, left arm                              | Diagnosis     | ICD-10-CM |
| S46.192A | Other injury of muscle, fascia and tendon of long head of biceps, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S46.192D | Other injury of muscle, fascia and tendon of long head of biceps, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S46.192S | Other injury of muscle, fascia and tendon of long head of biceps, left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S46.199  | Other injury of muscle, fascia and tendon of long head of biceps, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S46.199A | Other injury of muscle, fascia and tendon of long head of biceps, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S46.199D | Other injury of muscle, fascia and tendon of long head of biceps, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S46.199S | Other injury of muscle, fascia and tendon of long head of biceps, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S46.2    | Injury of muscle, fascia and tendon of other parts of biceps  | Diagnosis     | ICD-10-CM |
| S46.20   | Unspecified injury of muscle, fascia and tendon of other parts of biceps                                | Diagnosis     | ICD-10-CM |
| S46.201  | Unspecified injury of muscle, fascia and tendon of other parts of biceps, right arm                     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S46.201A | Unspecified injury of muscle, fascia and tendon of other parts of biceps, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S46.201D | Unspecified injury of muscle, fascia and tendon of other parts of biceps, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S46.201S | Unspecified injury of muscle, fascia and tendon of other parts of biceps, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S46.202  | Unspecified injury of muscle, fascia and tendon of other parts of biceps, left arm                              | Diagnosis     | ICD-10-CM |
| S46.202A | Unspecified injury of muscle, fascia and tendon of other parts of biceps, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S46.202D | Unspecified injury of muscle, fascia and tendon of other parts of biceps, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S46.202S | Unspecified injury of muscle, fascia and tendon of other parts of biceps, left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S46.209  | Unspecified injury of muscle, fascia and tendon of other parts of biceps, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S46.209A | Unspecified injury of muscle, fascia and tendon of other parts of biceps, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S46.209D | Unspecified injury of muscle, fascia and tendon of other parts of biceps, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S46.209S | Unspecified injury of muscle, fascia and tendon of other parts of biceps, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S46.21   | Strain of muscle, fascia and tendon of other parts of biceps  | Diagnosis     | ICD-10-CM |
| S46.211  | Strain of muscle, fascia and tendon of other parts of biceps, right arm   | Diagnosis     | ICD-10-CM |
| S46.211A | Strain of muscle, fascia and tendon of other parts of biceps, right arm, initial encounter                      | Diagnosis     | ICD-10-CM |
| S46.211D | Strain of muscle, fascia and tendon of other parts of biceps, right arm, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S46.211S | Strain of muscle, fascia and tendon of other parts of biceps, right arm, sequela                                | Diagnosis     | ICD-10-CM |
| S46.212  | Strain of muscle, fascia and tendon of other parts of biceps, left arm  | Diagnosis     | ICD-10-CM |
| S46.212A | Strain of muscle, fascia and tendon of other parts of biceps, left arm, initial encounter                       | Diagnosis     | ICD-10-CM |
| S46.212D | Strain of muscle, fascia and tendon of other parts of biceps, left arm, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S46.212S | Strain of muscle, fascia and tendon of other parts of biceps, left arm, sequela                                 | Diagnosis     | ICD-10-CM |
| S46.219  | Strain of muscle, fascia and tendon of other parts of biceps, unspecified arm                                   | Diagnosis     | ICD-10-CM |
| S46.219A | Strain of muscle, fascia and tendon of other parts of biceps, unspecified arm, initial encounter                | Diagnosis     | ICD-10-CM |
| S46.219D | Strain of muscle, fascia and tendon of other parts of biceps, unspecified arm, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S46.219S | Strain of muscle, fascia and tendon of other parts of biceps, unspecified arm, sequela                          | Diagnosis     | ICD-10-CM |
| S46.22   | Laceration of muscle, fascia and tendon of other parts of biceps  | Diagnosis     | ICD-10-CM |
| S46.221  | Laceration of muscle, fascia and tendon of other parts of biceps, right arm                                     | Diagnosis     | ICD-10-CM |
| S46.221A | Laceration of muscle, fascia and tendon of other parts of biceps, right arm, initial encounter                  | Diagnosis     | ICD-10-CM |
| S46.221D | Laceration of muscle, fascia and tendon of other parts of biceps, right arm, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S46.221S | Laceration of muscle, fascia and tendon of other parts of biceps, right arm, sequela                            | Diagnosis     | ICD-10-CM |
| S46.222  | Laceration of muscle, fascia and tendon of other parts of biceps, left arm                                      | Diagnosis     | ICD-10-CM |
| S46.222A | Laceration of muscle, fascia and tendon of other parts of biceps, left arm, initial encounter                   | Diagnosis     | ICD-10-CM |
| S46.222D | Laceration of muscle, fascia and tendon of other parts of biceps, left arm, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S46.222S | Laceration of muscle, fascia and tendon of other parts of biceps, left arm, sequela                             | Diagnosis     | ICD-10-CM |
| S46.229  | Laceration of muscle, fascia and tendon of other parts of biceps, unspecified arm                               | Diagnosis     | ICD-10-CM |
| S46.229A | Laceration of muscle, fascia and tendon of other parts of biceps, unspecified arm, initial encounter            | Diagnosis     | ICD-10-CM |
| S46.229D | Laceration of muscle, fascia and tendon of other parts of biceps, unspecified arm, subsequent encounter         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S46.229S | Laceration of muscle, fascia and tendon of other parts of biceps, unspecified arm, sequela                | Diagnosis     | ICD-10-CM |
| S46.29   | Other injury of muscle, fascia and tendon of other parts of biceps  | Diagnosis     | ICD-10-CM |
| S46.291  | Other injury of muscle, fascia and tendon of other parts of biceps, right arm                             | Diagnosis     | ICD-10-CM |
| S46.291A | Other injury of muscle, fascia and tendon of other parts of biceps, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S46.291D | Other injury of muscle, fascia and tendon of other parts of biceps, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S46.291S | Other injury of muscle, fascia and tendon of other parts of biceps, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S46.292  | Other injury of muscle, fascia and tendon of other parts of biceps, left arm                              | Diagnosis     | ICD-10-CM |
| S46.292A | Other injury of muscle, fascia and tendon of other parts of biceps, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S46.292D | Other injury of muscle, fascia and tendon of other parts of biceps, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S46.292S | Other injury of muscle, fascia and tendon of other parts of biceps, left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S46.299  | Other injury of muscle, fascia and tendon of other parts of biceps, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S46.299A | Other injury of muscle, fascia and tendon of other parts of biceps, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S46.299D | Other injury of muscle, fascia and tendon of other parts of biceps, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S46.299S | Other injury of muscle, fascia and tendon of other parts of biceps, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S46.3    | Injury of muscle, fascia and tendon of triceps  | Diagnosis     | ICD-10-CM |
| S46.30   | Unspecified injury of muscle, fascia and tendon of triceps  | Diagnosis     | ICD-10-CM |
| S46.301  | Unspecified injury of muscle, fascia and tendon of triceps, right arm                                     | Diagnosis     | ICD-10-CM |
| S46.301A | Unspecified injury of muscle, fascia and tendon of triceps, right arm, initial encounter                  | Diagnosis     | ICD-10-CM |
| S46.301D | Unspecified injury of muscle, fascia and tendon of triceps, right arm, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S46.301S | Unspecified injury of muscle, fascia and tendon of triceps, right arm, sequela                            | Diagnosis     | ICD-10-CM |
| S46.302  | Unspecified injury of muscle, fascia and tendon of triceps, left arm                                      | Diagnosis     | ICD-10-CM |
| S46.302A | Unspecified injury of muscle, fascia and tendon of triceps, left arm, initial encounter                   | Diagnosis     | ICD-10-CM |
| S46.302D | Unspecified injury of muscle, fascia and tendon of triceps, left arm, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S46.302S | Unspecified injury of muscle, fascia and tendon of triceps, left arm, sequela                             | Diagnosis     | ICD-10-CM |
| S46.309  | Unspecified injury of muscle, fascia and tendon of triceps, unspecified arm                               | Diagnosis     | ICD-10-CM |
| S46.309A | Unspecified injury of muscle, fascia and tendon of triceps, unspecified arm, initial encounter            | Diagnosis     | ICD-10-CM |
| S46.309D | Unspecified injury of muscle, fascia and tendon of triceps, unspecified arm, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S46.309S | Unspecified injury of muscle, fascia and tendon of triceps, unspecified arm, sequela                      | Diagnosis     | ICD-10-CM |
| S46.31   | Strain of muscle, fascia and tendon of triceps  | Diagnosis     | ICD-10-CM |
| S46.311  | Strain of muscle, fascia and tendon of triceps, right arm   | Diagnosis     | ICD-10-CM |
| S46.311A | Strain of muscle, fascia and tendon of triceps, right arm, initial encounter                              | Diagnosis     | ICD-10-CM |
| S46.311D | Strain of muscle, fascia and tendon of triceps, right arm, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S46.311S | Strain of muscle, fascia and tendon of triceps, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S46.312  | Strain of muscle, fascia and tendon of triceps, left arm  | Diagnosis     | ICD-10-CM |
| S46.312A | Strain of muscle, fascia and tendon of triceps, left arm, initial encounter                               | Diagnosis     | ICD-10-CM |
| S46.312D | Strain of muscle, fascia and tendon of triceps, left arm, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S46.312S | Strain of muscle, fascia and tendon of triceps, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S46.319  | Strain of muscle, fascia and tendon of triceps, unspecified arm   | Diagnosis     | ICD-10-CM |
| S46.319A | Strain of muscle, fascia and tendon of triceps, unspecified arm, initial encounter                        | Diagnosis     | ICD-10-CM |
| S46.319D | Strain of muscle, fascia and tendon of triceps, unspecified arm, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S46.319S | Strain of muscle, fascia and tendon of triceps, unspecified arm, sequela                                  | Diagnosis     | ICD-10-CM |
| S46.32   | Laceration of muscle, fascia and tendon of triceps  | Diagnosis     | ICD-10-CM |
| S46.321  | Laceration of muscle, fascia and tendon of triceps, right arm   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S46.321A | Laceration of muscle, fascia and tendon of triceps, right arm, initial encounter   | Diagnosis     | ICD-10-CM |
| S46.321D | Laceration of muscle, fascia and tendon of triceps, right arm, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S46.321S | Laceration of muscle, fascia and tendon of triceps, right arm, sequela   | Diagnosis     | ICD-10-CM |
| S46.322  | Laceration of muscle, fascia and tendon of triceps, left arm   | Diagnosis     | ICD-10-CM |
| S46.322A | Laceration of muscle, fascia and tendon of triceps, left arm, initial encounter  | Diagnosis     | ICD-10-CM |
| S46.322D | Laceration of muscle, fascia and tendon of triceps, left arm, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S46.322S | Laceration of muscle, fascia and tendon of triceps, left arm, sequela  | Diagnosis     | ICD-10-CM |
| S46.329  | Laceration of muscle, fascia and tendon of triceps, unspecified arm  | Diagnosis     | ICD-10-CM |
| S46.329A | Laceration of muscle, fascia and tendon of triceps, unspecified arm, initial encounter   | Diagnosis     | ICD-10-CM |
| S46.329D | Laceration of muscle, fascia and tendon of triceps, unspecified arm, subsequent encounter                                      | Diagnosis     | ICD-10-CM |
| S46.329S | Laceration of muscle, fascia and tendon of triceps, unspecified arm, sequela   | Diagnosis     | ICD-10-CM |
| S46.39   | Other injury of muscle, fascia and tendon of triceps   | Diagnosis     | ICD-10-CM |
| S46.391  | Other injury of muscle, fascia and tendon of triceps, right arm  | Diagnosis     | ICD-10-CM |
| S46.391A | Other injury of muscle, fascia and tendon of triceps, right arm, initial encounter   | Diagnosis     | ICD-10-CM |
| S46.391D | Other injury of muscle, fascia and tendon of triceps, right arm, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S46.391S | Other injury of muscle, fascia and tendon of triceps, right arm, sequela   | Diagnosis     | ICD-10-CM |
| S46.392  | Other injury of muscle, fascia and tendon of triceps, left arm   | Diagnosis     | ICD-10-CM |
| S46.392A | Other injury of muscle, fascia and tendon of triceps, left arm, initial encounter  | Diagnosis     | ICD-10-CM |
| S46.392D | Other injury of muscle, fascia and tendon of triceps, left arm, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S46.392S | Other injury of muscle, fascia and tendon of triceps, left arm, sequela  | Diagnosis     | ICD-10-CM |
| S46.399  | Other injury of muscle, fascia and tendon of triceps, unspecified arm  | Diagnosis     | ICD-10-CM |
| S46.399A | Other injury of muscle, fascia and tendon of triceps, unspecified arm, initial encounter                                       | Diagnosis     | ICD-10-CM |
| S46.399D | Other injury of muscle, fascia and tendon of triceps, unspecified arm, subsequent encounter                                    | Diagnosis     | ICD-10-CM |
| S46.399S | Other injury of muscle, fascia and tendon of triceps, unspecified arm, sequela   | Diagnosis     | ICD-10-CM |
| S46.8    | Injury of other muscles, fascia and tendons at shoulder and upper arm level  | Diagnosis     | ICD-10-CM |
| S46.80   | Unspecified injury of other muscles, fascia and tendons at shoulder and upper arm level  | Diagnosis     | ICD-10-CM |
| S46.801  | Unspecified injury of other muscles, fascia and tendons at shoulder and upper arm level, right arm                             | Diagnosis     | ICD-10-CM |
| S46.801A | Unspecified injury of other muscles, fascia and tendons at shoulder and upper arm level, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S46.801D | Unspecified injury of other muscles, fascia and tendons at shoulder and upper arm level, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S46.801S | Unspecified injury of other muscles, fascia and tendons at shoulder and upper arm level, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S46.802  | Unspecified injury of other muscles, fascia and tendons at shoulder and upper arm level, left arm                              | Diagnosis     | ICD-10-CM |
| S46.802A | Unspecified injury of other muscles, fascia and tendons at shoulder and upper arm level, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S46.802D | Unspecified injury of other muscles, fascia and tendons at shoulder and upper arm level, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S46.802S | Unspecified injury of other muscles, fascia and tendons at shoulder and upper arm level, left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S46.809  | Unspecified injury of other muscles, fascia and tendons at shoulder and upper arm level, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S46.809A | Unspecified injury of other muscles, fascia and tendons at shoulder and upper arm level, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S46.809D | Unspecified injury of other muscles, fascia and tendons at shoulder and upper arm level, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S46.809S | Unspecified injury of other muscles, fascia and tendons at shoulder and upper arm level, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S46.81   | Strain of other muscles, fascia and tendons at shoulder and upper arm level  | Diagnosis     | ICD-10-CM |
| S46.811  | Strain of other muscles, fascia and tendons at shoulder and upper arm level, right arm                                 | Diagnosis     | ICD-10-CM |
| S46.811A | Strain of other muscles, fascia and tendons at shoulder and upper arm level, right arm, initial encounter              | Diagnosis     | ICD-10-CM |
| S46.811D | Strain of other muscles, fascia and tendons at shoulder and upper arm level, right arm, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S46.811S | Strain of other muscles, fascia and tendons at shoulder and upper arm level, right arm, sequela                        | Diagnosis     | ICD-10-CM |
| S46.812  | Strain of other muscles, fascia and tendons at shoulder and upper arm level, left arm                                  | Diagnosis     | ICD-10-CM |
| S46.812A | Strain of other muscles, fascia and tendons at shoulder and upper arm level, left arm, initial encounter               | Diagnosis     | ICD-10-CM |
| S46.812D | Strain of other muscles, fascia and tendons at shoulder and upper arm level, left arm, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S46.812S | Strain of other muscles, fascia and tendons at shoulder and upper arm level, left arm, sequela                         | Diagnosis     | ICD-10-CM |
| S46.819  | Strain of other muscles, fascia and tendons at shoulder and upper arm level, unspecified arm                           | Diagnosis     | ICD-10-CM |
| S46.819A | Strain of other muscles, fascia and tendons at shoulder and upper arm level, unspecified arm, initial encounter        | Diagnosis     | ICD-10-CM |
| S46.819D | Strain of other muscles, fascia and tendons at shoulder and upper arm level, unspecified arm, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S46.819S | Strain of other muscles, fascia and tendons at shoulder and upper arm level, unspecified arm, sequela                  | Diagnosis     | ICD-10-CM |
| S46.82   | Laceration of other muscles, fascia and tendons at shoulder and upper arm level  | Diagnosis     | ICD-10-CM |
| S46.821  | Laceration of other muscles, fascia and tendons at shoulder and upper arm level, right arm                             | Diagnosis     | ICD-10-CM |
| S46.821A | Laceration of other muscles, fascia and tendons at shoulder and upper arm level, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S46.821D | Laceration of other muscles, fascia and tendons at shoulder and upper arm level, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S46.821S | Laceration of other muscles, fascia and tendons at shoulder and upper arm level, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S46.822  | Laceration of other muscles, fascia and tendons at shoulder and upper arm level, left arm                              | Diagnosis     | ICD-10-CM |
| S46.822A | Laceration of other muscles, fascia and tendons at shoulder and upper arm level, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S46.822D | Laceration of other muscles, fascia and tendons at shoulder and upper arm level, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S46.822S | Laceration of other muscles, fascia and tendons at shoulder and upper arm level, left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S46.829  | Laceration of other muscles, fascia and tendons at shoulder and upper arm level, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S46.829A | Laceration of other muscles, fascia and tendons at shoulder and upper arm level, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S46.829D | Laceration of other muscles, fascia and tendons at shoulder and upper arm level, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S46.829S | Laceration of other muscles, fascia and tendons at shoulder and upper arm level, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S46.89   | Other injury of other muscles, fascia and tendons at shoulder and upper arm level                                      | Diagnosis     | ICD-10-CM |
| S46.891  | Other injury of other muscles, fascia and tendons at shoulder and upper arm level, right arm                           | Diagnosis     | ICD-10-CM |
| S46.891A | Other injury of other muscles, fascia and tendons at shoulder and upper arm level, right arm, initial encounter        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S46.891D | Other injury of other muscles, fascia and tendons at shoulder and upper arm level, right arm, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S46.891S | Other injury of other muscles, fascia and tendons at shoulder and upper arm level, right arm, sequela                              | Diagnosis     | ICD-10-CM |
| S46.892  | Other injury of other muscles, fascia and tendons at shoulder and upper arm level, left arm  | Diagnosis     | ICD-10-CM |
| S46.892A | Other injury of other muscles, fascia and tendons at shoulder and upper arm level, left arm, initial encounter                     | Diagnosis     | ICD-10-CM |
| S46.892D | Other injury of other muscles, fascia and tendons at shoulder and upper arm level, left arm, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S46.892S | Other injury of other muscles, fascia and tendons at shoulder and upper arm level, left arm, sequela                               | Diagnosis     | ICD-10-CM |
| S46.899  | Other injury of other muscles, fascia and tendons at shoulder and upper arm level, unspecified arm                                 | Diagnosis     | ICD-10-CM |
| S46.899A | Other injury of other muscles, fascia and tendons at shoulder and upper arm level, unspecified arm, initial encounter              | Diagnosis     | ICD-10-CM |
| S46.899D | Other injury of other muscles, fascia and tendons at shoulder and upper arm level, unspecified arm, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S46.899S | Other injury of other muscles, fascia and tendons at shoulder and upper arm level, unspecified arm, sequela                        | Diagnosis     | ICD-10-CM |
| S46.9    | Injury of unspecified muscle, fascia and tendon at shoulder and upper arm level  | Diagnosis     | ICD-10-CM |
| S46.90   | Unspecified injury of unspecified muscle, fascia and tendon at shoulder and upper arm level  | Diagnosis     | ICD-10-CM |
| S46.901  | Unspecified injury of unspecified muscle, fascia and tendon at shoulder and upper arm level, right arm                             | Diagnosis     | ICD-10-CM |
| S46.901A | Unspecified injury of unspecified muscle, fascia and tendon at shoulder and upper arm level, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S46.901D | Unspecified injury of unspecified muscle, fascia and tendon at shoulder and upper arm level, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S46.901S | Unspecified injury of unspecified muscle, fascia and tendon at shoulder and upper arm level, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S46.902  | Unspecified injury of unspecified muscle, fascia and tendon at shoulder and upper arm level, left arm                              | Diagnosis     | ICD-10-CM |
| S46.902A | Unspecified injury of unspecified muscle, fascia and tendon at shoulder and upper arm level, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S46.902D | Unspecified injury of unspecified muscle, fascia and tendon at shoulder and upper arm level, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S46.902S | Unspecified injury of unspecified muscle, fascia and tendon at shoulder and upper arm level, left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S46.909  | Unspecified injury of unspecified muscle, fascia and tendon at shoulder and upper arm level, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S46.909A | Unspecified injury of unspecified muscle, fascia and tendon at shoulder and upper arm level, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S46.909D | Unspecified injury of unspecified muscle, fascia and tendon at shoulder and upper arm level, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S46.909S | Unspecified injury of unspecified muscle, fascia and tendon at shoulder and upper arm level, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S46.91   | Strain of unspecified muscle, fascia and tendon at shoulder and upper arm level  | Diagnosis     | ICD-10-CM |
| S46.911  | Strain of unspecified muscle, fascia and tendon at shoulder and upper arm level, right arm   | Diagnosis     | ICD-10-CM |
| S46.911A | Strain of unspecified muscle, fascia and tendon at shoulder and upper arm level, right arm, initial encounter                      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S46.911D | Strain of unspecified muscle, fascia and tendon at shoulder and upper arm level, right arm, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S46.911S | Strain of unspecified muscle, fascia and tendon at shoulder and upper arm level, right arm, sequela                        | Diagnosis     | ICD-10-CM |
| S46.912  | Strain of unspecified muscle, fascia and tendon at shoulder and upper arm level, left arm                                  | Diagnosis     | ICD-10-CM |
| S46.912A | Strain of unspecified muscle, fascia and tendon at shoulder and upper arm level, left arm, initial encounter               | Diagnosis     | ICD-10-CM |
| S46.912D | Strain of unspecified muscle, fascia and tendon at shoulder and upper arm level, left arm, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S46.912S | Strain of unspecified muscle, fascia and tendon at shoulder and upper arm level, left arm, sequela                         | Diagnosis     | ICD-10-CM |
| S46.919  | Strain of unspecified muscle, fascia and tendon at shoulder and upper arm level, unspecified arm                           | Diagnosis     | ICD-10-CM |
| S46.919A | Strain of unspecified muscle, fascia and tendon at shoulder and upper arm level, unspecified arm, initial encounter        | Diagnosis     | ICD-10-CM |
| S46.919D | Strain of unspecified muscle, fascia and tendon at shoulder and upper arm level, unspecified arm, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S46.919S | Strain of unspecified muscle, fascia and tendon at shoulder and upper arm level, unspecified arm, sequela                  | Diagnosis     | ICD-10-CM |
| S46.92   | Laceration of unspecified muscle, fascia and tendon at shoulder and upper arm level  | Diagnosis     | ICD-10-CM |
| S46.921  | Laceration of unspecified muscle, fascia and tendon at shoulder and upper arm level, right arm                             | Diagnosis     | ICD-10-CM |
| S46.921A | Laceration of unspecified muscle, fascia and tendon at shoulder and upper arm level, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S46.921D | Laceration of unspecified muscle, fascia and tendon at shoulder and upper arm level, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S46.921S | Laceration of unspecified muscle, fascia and tendon at shoulder and upper arm level, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S46.922  | Laceration of unspecified muscle, fascia and tendon at shoulder and upper arm level, left arm                              | Diagnosis     | ICD-10-CM |
| S46.922A | Laceration of unspecified muscle, fascia and tendon at shoulder and upper arm level, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S46.922D | Laceration of unspecified muscle, fascia and tendon at shoulder and upper arm level, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S46.922S | Laceration of unspecified muscle, fascia and tendon at shoulder and upper arm level, left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S46.929  | Laceration of unspecified muscle, fascia and tendon at shoulder and upper arm level, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S46.929A | Laceration of unspecified muscle, fascia and tendon at shoulder and upper arm level, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S46.929D | Laceration of unspecified muscle, fascia and tendon at shoulder and upper arm level, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S46.929S | Laceration of unspecified muscle, fascia and tendon at shoulder and upper arm level, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S46.99   | Other injury of unspecified muscle, fascia and tendon at shoulder and upper arm level                                      | Diagnosis     | ICD-10-CM |
| S46.991  | Other injury of unspecified muscle, fascia and tendon at shoulder and upper arm level, right arm                           | Diagnosis     | ICD-10-CM |
| S46.991A | Other injury of unspecified muscle, fascia and tendon at shoulder and upper arm level, right arm, initial encounter        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S46.991D | Other injury of unspecified muscle, fascia and tendon at shoulder and upper arm level, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S46.991S | Other injury of unspecified muscle, fascia and tendon at shoulder and upper arm level, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S46.992  | Other injury of unspecified muscle, fascia and tendon at shoulder and upper arm level, left arm                              | Diagnosis     | ICD-10-CM |
| S46.992A | Other injury of unspecified muscle, fascia and tendon at shoulder and upper arm level, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S46.992D | Other injury of unspecified muscle, fascia and tendon at shoulder and upper arm level, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S46.992S | Other injury of unspecified muscle, fascia and tendon at shoulder and upper arm level, left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S46.999  | Other injury of unspecified muscle, fascia and tendon at shoulder and upper arm level, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S46.999A | Other injury of unspecified muscle, fascia and tendon at shoulder and upper arm level, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S46.999D | Other injury of unspecified muscle, fascia and tendon at shoulder and upper arm level, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S46.999S | Other injury of unspecified muscle, fascia and tendon at shoulder and upper arm level, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S47      | Crushing injury of shoulder and upper arm  | Diagnosis     | ICD-10-CM |
| S47.1    | Crushing injury of right shoulder and upper arm  | Diagnosis     | ICD-10-CM |
| S47.1XXA | Crushing injury of right shoulder and upper arm, initial encounter   | Diagnosis     | ICD-10-CM |
| S47.1XXD | Crushing injury of right shoulder and upper arm, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S47.1XXS | Crushing injury of right shoulder and upper arm, sequela   | Diagnosis     | ICD-10-CM |
| S47.2    | Crushing injury of left shoulder and upper arm   | Diagnosis     | ICD-10-CM |
| S47.2XXA | Crushing injury of left shoulder and upper arm, initial encounter  | Diagnosis     | ICD-10-CM |
| S47.2XXD | Crushing injury of left shoulder and upper arm, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S47.2XXS | Crushing injury of left shoulder and upper arm, sequela  | Diagnosis     | ICD-10-CM |
| S47.9    | Crushing injury of shoulder and upper arm, unspecified arm   | Diagnosis     | ICD-10-CM |
| S47.9XXA | Crushing injury of shoulder and upper arm, unspecified arm, initial encounter  | Diagnosis     | ICD-10-CM |
| S47.9XXD | Crushing injury of shoulder and upper arm, unspecified arm, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S47.9XXS | Crushing injury of shoulder and upper arm, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S48      | Traumatic amputation of shoulder and upper arm   | Diagnosis     | ICD-10-CM |
| S48.0    | Traumatic amputation at shoulder joint   | Diagnosis     | ICD-10-CM |
| S48.01   | Complete traumatic amputation at shoulder joint  | Diagnosis     | ICD-10-CM |
| S48.011  | Complete traumatic amputation at right shoulder joint  | Diagnosis     | ICD-10-CM |
| S48.011A | Complete traumatic amputation at right shoulder joint, initial encounter   | Diagnosis     | ICD-10-CM |
| S48.011D | Complete traumatic amputation at right shoulder joint, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S48.011S | Complete traumatic amputation at right shoulder joint, sequela   | Diagnosis     | ICD-10-CM |
| S48.012  | Complete traumatic amputation at left shoulder joint   | Diagnosis     | ICD-10-CM |
| S48.012A | Complete traumatic amputation at left shoulder joint, initial encounter  | Diagnosis     | ICD-10-CM |
| S48.012D | Complete traumatic amputation at left shoulder joint, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S48.012S | Complete traumatic amputation at left shoulder joint, sequela  | Diagnosis     | ICD-10-CM |
| S48.019  | Complete traumatic amputation at unspecified shoulder joint  | Diagnosis     | ICD-10-CM |
| S48.019A | Complete traumatic amputation at unspecified shoulder joint, initial encounter   | Diagnosis     | ICD-10-CM |
| S48.019D | Complete traumatic amputation at unspecified shoulder joint, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S48.019S | Complete traumatic amputation at unspecified shoulder joint, sequela   | Diagnosis     | ICD-10-CM |
| S48.02   | Partial traumatic amputation at shoulder joint   | Diagnosis     | ICD-10-CM |
| S48.021  | Partial traumatic amputation at right shoulder joint   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S48.021A | Partial traumatic amputation at right shoulder joint, initial encounter                             | Diagnosis     | ICD-10-CM |
| S48.021D | Partial traumatic amputation at right shoulder joint, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S48.021S | Partial traumatic amputation at right shoulder joint, sequela                                       | Diagnosis     | ICD-10-CM |
| S48.022  | Partial traumatic amputation at left shoulder joint   | Diagnosis     | ICD-10-CM |
| S48.022A | Partial traumatic amputation at left shoulder joint, initial encounter                              | Diagnosis     | ICD-10-CM |
| S48.022D | Partial traumatic amputation at left shoulder joint, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S48.022S | Partial traumatic amputation at left shoulder joint, sequela  | Diagnosis     | ICD-10-CM |
| S48.029  | Partial traumatic amputation at unspecified shoulder joint  | Diagnosis     | ICD-10-CM |
| S48.029A | Partial traumatic amputation at unspecified shoulder joint, initial encounter                       | Diagnosis     | ICD-10-CM |
| S48.029D | Partial traumatic amputation at unspecified shoulder joint, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S48.029S | Partial traumatic amputation at unspecified shoulder joint, sequela                                 | Diagnosis     | ICD-10-CM |
| S48.1    | Traumatic amputation at level between shoulder and elbow  | Diagnosis     | ICD-10-CM |
| S48.11   | Complete traumatic amputation at level between shoulder and elbow                                   | Diagnosis     | ICD-10-CM |
| S48.111  | Complete traumatic amputation at level between right shoulder and elbow                             | Diagnosis     | ICD-10-CM |
| S48.111A | Complete traumatic amputation at level between right shoulder and elbow, initial encounter          | Diagnosis     | ICD-10-CM |
| S48.111D | Complete traumatic amputation at level between right shoulder and elbow, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S48.111S | Complete traumatic amputation at level between right shoulder and elbow, sequela                    | Diagnosis     | ICD-10-CM |
| S48.112  | Complete traumatic amputation at level between left shoulder and elbow                              | Diagnosis     | ICD-10-CM |
| S48.112A | Complete traumatic amputation at level between left shoulder and elbow, initial encounter           | Diagnosis     | ICD-10-CM |
| S48.112D | Complete traumatic amputation at level between left shoulder and elbow, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S48.112S | Complete traumatic amputation at level between left shoulder and elbow, sequela                     | Diagnosis     | ICD-10-CM |
| S48.119  | Complete traumatic amputation at level between unspecified shoulder and elbow                       | Diagnosis     | ICD-10-CM |
| S48.119A | Complete traumatic amputation at level between unspecified shoulder and elbow, initial encounter    | Diagnosis     | ICD-10-CM |
| S48.119D | Complete traumatic amputation at level between unspecified shoulder and elbow, subsequent encounter | Diagnosis     | ICD-10-CM |
| S48.119S | Complete traumatic amputation at level between unspecified shoulder and elbow, sequela              | Diagnosis     | ICD-10-CM |
| S48.12   | Partial traumatic amputation at level between shoulder and elbow                                    | Diagnosis     | ICD-10-CM |
| S48.121  | Partial traumatic amputation at level between right shoulder and elbow                              | Diagnosis     | ICD-10-CM |
| S48.121A | Partial traumatic amputation at level between right shoulder and elbow, initial encounter           | Diagnosis     | ICD-10-CM |
| S48.121D | Partial traumatic amputation at level between right shoulder and elbow, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S48.121S | Partial traumatic amputation at level between right shoulder and elbow, sequela                     | Diagnosis     | ICD-10-CM |
| S48.122  | Partial traumatic amputation at level between left shoulder and elbow                               | Diagnosis     | ICD-10-CM |
| S48.122A | Partial traumatic amputation at level between left shoulder and elbow, initial encounter            | Diagnosis     | ICD-10-CM |
| S48.122D | Partial traumatic amputation at level between left shoulder and elbow, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S48.122S | Partial traumatic amputation at level between left shoulder and elbow, sequela                      | Diagnosis     | ICD-10-CM |
| S48.129  | Partial traumatic amputation at level between unspecified shoulder and elbow                        | Diagnosis     | ICD-10-CM |
| S48.129A | Partial traumatic amputation at level between unspecified shoulder and elbow, initial encounter     | Diagnosis     | ICD-10-CM |
| S48.129D | Partial traumatic amputation at level between unspecified shoulder and elbow, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S48.129S | Partial traumatic amputation at level between unspecified shoulder and elbow, sequela               | Diagnosis     | ICD-10-CM |
| S48.9    | Traumatic amputation of shoulder and upper arm, level unspecified                                   | Diagnosis     | ICD-10-CM |
| S48.91   | Complete traumatic amputation of shoulder and upper arm, level unspecified                          | Diagnosis     | ICD-10-CM |
| S48.911  | Complete traumatic amputation of right shoulder and upper arm, level unspecified                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S48.911A | Complete traumatic amputation of right shoulder and upper arm, level unspecified, initial encounter                    | Diagnosis     | ICD-10-CM |
| S48.911D | Complete traumatic amputation of right shoulder and upper arm, level unspecified, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S48.911S | Complete traumatic amputation of right shoulder and upper arm, level unspecified, sequela                              | Diagnosis     | ICD-10-CM |
| S48.912  | Complete traumatic amputation of left shoulder and upper arm, level unspecified  | Diagnosis     | ICD-10-CM |
| S48.912A | Complete traumatic amputation of left shoulder and upper arm, level unspecified, initial encounter                     | Diagnosis     | ICD-10-CM |
| S48.912D | Complete traumatic amputation of left shoulder and upper arm, level unspecified, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S48.912S | Complete traumatic amputation of left shoulder and upper arm, level unspecified, sequela                               | Diagnosis     | ICD-10-CM |
| S48.919  | Complete traumatic amputation of unspecified shoulder and upper arm, level unspecified                                 | Diagnosis     | ICD-10-CM |
| S48.919A | Complete traumatic amputation of unspecified shoulder and upper arm, level unspecified, initial encounter              | Diagnosis     | ICD-10-CM |
| S48.919D | Complete traumatic amputation of unspecified shoulder and upper arm, level unspecified, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S48.919S | Complete traumatic amputation of unspecified shoulder and upper arm, level unspecified, sequela                        | Diagnosis     | ICD-10-CM |
| S48.92   | Partial traumatic amputation of shoulder and upper arm, level unspecified  | Diagnosis     | ICD-10-CM |
| S48.921  | Partial traumatic amputation of right shoulder and upper arm, level unspecified  | Diagnosis     | ICD-10-CM |
| S48.921A | Partial traumatic amputation of right shoulder and upper arm, level unspecified, initial encounter                     | Diagnosis     | ICD-10-CM |
| S48.921D | Partial traumatic amputation of right shoulder and upper arm, level unspecified, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S48.921S | Partial traumatic amputation of right shoulder and upper arm, level unspecified, sequela                               | Diagnosis     | ICD-10-CM |
| S48.922  | Partial traumatic amputation of left shoulder and upper arm, level unspecified   | Diagnosis     | ICD-10-CM |
| S48.922A | Partial traumatic amputation of left shoulder and upper arm, level unspecified, initial encounter                      | Diagnosis     | ICD-10-CM |
| S48.922D | Partial traumatic amputation of left shoulder and upper arm, level unspecified, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S48.922S | Partial traumatic amputation of left shoulder and upper arm, level unspecified, sequela                                | Diagnosis     | ICD-10-CM |
| S48.929  | Partial traumatic amputation of unspecified shoulder and upper arm, level unspecified                                  | Diagnosis     | ICD-10-CM |
| S48.929A | Partial traumatic amputation of unspecified shoulder and upper arm, level unspecified, initial encounter               | Diagnosis     | ICD-10-CM |
| S48.929D | Partial traumatic amputation of unspecified shoulder and upper arm, level unspecified, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S48.929S | Partial traumatic amputation of unspecified shoulder and upper arm, level unspecified, sequela                         | Diagnosis     | ICD-10-CM |
| S49      | Other and unspecified injuries of shoulder and upper arm   | Diagnosis     | ICD-10-CM |
| S49.0    | Physal fracture of upper end of humerus  | Diagnosis     | ICD-10-CM |
| S49.00   | Unspecified physal fracture of upper end of humerus  | Diagnosis     | ICD-10-CM |
| S49.001  | Unspecified physal fracture of upper end of humerus, right arm   | Diagnosis     | ICD-10-CM |
| S49.001A | Unspecified physal fracture of upper end of humerus, right arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S49.001D | Unspecified physal fracture of upper end of humerus, right arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S49.001G | Unspecified physal fracture of upper end of humerus, right arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S49.001K | Unspecified physal fracture of upper end of humerus, right arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S49.001P | Unspecified physeal fracture of upper end of humerus, right arm, subsequent encounter for fracture with malunion                 | Diagnosis     | ICD-10-CM |
| S49.001S | Unspecified physeal fracture of upper end of humerus, right arm, sequela   | Diagnosis     | ICD-10-CM |
| S49.002  | Unspecified physeal fracture of upper end of humerus, left arm   | Diagnosis     | ICD-10-CM |
| S49.002A | Unspecified physeal fracture of upper end of humerus, left arm, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S49.002D | Unspecified physeal fracture of upper end of humerus, left arm, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S49.002G | Unspecified physeal fracture of upper end of humerus, left arm, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S49.002K | Unspecified physeal fracture of upper end of humerus, left arm, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S49.002P | Unspecified physeal fracture of upper end of humerus, left arm, subsequent encounter for fracture with malunion                  | Diagnosis     | ICD-10-CM |
| S49.002S | Unspecified physeal fracture of upper end of humerus, left arm, sequela  | Diagnosis     | ICD-10-CM |
| S49.009  | Unspecified physeal fracture of upper end of humerus, unspecified arm  | Diagnosis     | ICD-10-CM |
| S49.009A | Unspecified physeal fracture of upper end of humerus, unspecified arm, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S49.009D | Unspecified physeal fracture of upper end of humerus, unspecified arm, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S49.009G | Unspecified physeal fracture of upper end of humerus, unspecified arm, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S49.009K | Unspecified physeal fracture of upper end of humerus, unspecified arm, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S49.009P | Unspecified physeal fracture of upper end of humerus, unspecified arm, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S49.009S | Unspecified physeal fracture of upper end of humerus, unspecified arm, sequela   | Diagnosis     | ICD-10-CM |
| S49.01   | Salter-Harris Type I physeal fracture of upper end of humerus  | Diagnosis     | ICD-10-CM |
| S49.011  | Salter-Harris Type I physeal fracture of upper end of humerus, right arm   | Diagnosis     | ICD-10-CM |
| S49.011A | Salter-Harris Type I physeal fracture of upper end of humerus, right arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S49.011D | Salter-Harris Type I physeal fracture of upper end of humerus, right arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S49.011G | Salter-Harris Type I physeal fracture of upper end of humerus, right arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S49.011K | Salter-Harris Type I physeal fracture of upper end of humerus, right arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S49.011P | Salter-Harris Type I physeal fracture of upper end of humerus, right arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S49.011S | Salter-Harris Type I physeal fracture of upper end of humerus, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S49.012  | Salter-Harris Type I physeal fracture of upper end of humerus, left arm  | Diagnosis     | ICD-10-CM |
| S49.012A | Salter-Harris Type I physeal fracture of upper end of humerus, left arm, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S49.012D | Salter-Harris Type I physeal fracture of upper end of humerus, left arm, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S49.012G | Salter-Harris Type I physeal fracture of upper end of humerus, left arm, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S49.012K | Salter-Harris Type I physeal fracture of upper end of humerus, left arm, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S49.012P | Salter-Harris Type I physeal fracture of upper end of humerus, left arm, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S49.012S | Salter-Harris Type I physeal fracture of upper end of humerus, left arm, sequela  | Diagnosis     | ICD-10-CM |
| S49.019  | Salter-Harris Type I physeal fracture of upper end of humerus, unspecified arm  | Diagnosis     | ICD-10-CM |
| S49.019A | Salter-Harris Type I physeal fracture of upper end of humerus, unspecified arm, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S49.019D | Salter-Harris Type I physeal fracture of upper end of humerus, unspecified arm, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S49.019G | Salter-Harris Type I physeal fracture of upper end of humerus, unspecified arm, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S49.019K | Salter-Harris Type I physeal fracture of upper end of humerus, unspecified arm, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S49.019P | Salter-Harris Type I physeal fracture of upper end of humerus, unspecified arm, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S49.019S | Salter-Harris Type I physeal fracture of upper end of humerus, unspecified arm, sequela   | Diagnosis     | ICD-10-CM |
| S49.02   | Salter-Harris Type II physeal fracture of upper end of humerus  | Diagnosis     | ICD-10-CM |
| S49.021  | Salter-Harris Type II physeal fracture of upper end of humerus, right arm   | Diagnosis     | ICD-10-CM |
| S49.021A | Salter-Harris Type II physeal fracture of upper end of humerus, right arm, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S49.021D | Salter-Harris Type II physeal fracture of upper end of humerus, right arm, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S49.021G | Salter-Harris Type II physeal fracture of upper end of humerus, right arm, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S49.021K | Salter-Harris Type II physeal fracture of upper end of humerus, right arm, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S49.021P | Salter-Harris Type II physeal fracture of upper end of humerus, right arm, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S49.021S | Salter-Harris Type II physeal fracture of upper end of humerus, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S49.022  | Salter-Harris Type II physeal fracture of upper end of humerus, left arm  | Diagnosis     | ICD-10-CM |
| S49.022A | Salter-Harris Type II physeal fracture of upper end of humerus, left arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S49.022D | Salter-Harris Type II physeal fracture of upper end of humerus, left arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S49.022G | Salter-Harris Type II physeal fracture of upper end of humerus, left arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S49.022K | Salter-Harris Type II physeal fracture of upper end of humerus, left arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S49.022P | Salter-Harris Type II physeal fracture of upper end of humerus, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S49.022S | Salter-Harris Type II physeal fracture of upper end of humerus, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S49.029  | Salter-Harris Type II physeal fracture of upper end of humerus, unspecified arm   | Diagnosis     | ICD-10-CM |
| S49.029A | Salter-Harris Type II physeal fracture of upper end of humerus, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S49.029D | Salter-Harris Type II physeal fracture of upper end of humerus, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S49.029G | Salter-Harris Type II physeal fracture of upper end of humerus, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S49.029K | Salter-Harris Type II physeal fracture of upper end of humerus, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S49.029P | Salter-Harris Type II physeal fracture of upper end of humerus, unspecified arm, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S49.029S | Salter-Harris Type II physeal fracture of upper end of humerus, unspecified arm, sequela   | Diagnosis     | ICD-10-CM |
| S49.03   | Salter-Harris Type III physeal fracture of upper end of humerus  | Diagnosis     | ICD-10-CM |
| S49.031  | Salter-Harris Type III physeal fracture of upper end of humerus, right arm   | Diagnosis     | ICD-10-CM |
| S49.031A | Salter-Harris Type III physeal fracture of upper end of humerus, right arm, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S49.031D | Salter-Harris Type III physeal fracture of upper end of humerus, right arm, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S49.031G | Salter-Harris Type III physeal fracture of upper end of humerus, right arm, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S49.031K | Salter-Harris Type III physeal fracture of upper end of humerus, right arm, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S49.031P | Salter-Harris Type III physeal fracture of upper end of humerus, right arm, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S49.031S | Salter-Harris Type III physeal fracture of upper end of humerus, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S49.032  | Salter-Harris Type III physeal fracture of upper end of humerus, left arm  | Diagnosis     | ICD-10-CM |
| S49.032A | Salter-Harris Type III physeal fracture of upper end of humerus, left arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S49.032D | Salter-Harris Type III physeal fracture of upper end of humerus, left arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S49.032G | Salter-Harris Type III physeal fracture of upper end of humerus, left arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S49.032K | Salter-Harris Type III physeal fracture of upper end of humerus, left arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S49.032P | Salter-Harris Type III physeal fracture of upper end of humerus, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S49.032S | Salter-Harris Type III physeal fracture of upper end of humerus, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S49.039  | Salter-Harris Type III physeal fracture of upper end of humerus, unspecified arm   | Diagnosis     | ICD-10-CM |
| S49.039A | Salter-Harris Type III physeal fracture of upper end of humerus, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S49.039D | Salter-Harris Type III physeal fracture of upper end of humerus, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S49.039G | Salter-Harris Type III physeal fracture of upper end of humerus, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S49.039K | Salter-Harris Type III physeal fracture of upper end of humerus, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S49.039P | Salter-Harris Type III physeal fracture of upper end of humerus, unspecified arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S49.039S | Salter-Harris Type III physeal fracture of upper end of humerus, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S49.04   | Salter-Harris Type IV physeal fracture of upper end of humerus   | Diagnosis     | ICD-10-CM |
| S49.041  | Salter-Harris Type IV physeal fracture of upper end of humerus, right arm  | Diagnosis     | ICD-10-CM |
| S49.041A | Salter-Harris Type IV physeal fracture of upper end of humerus, right arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S49.041D | Salter-Harris Type IV physeal fracture of upper end of humerus, right arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S49.041G | Salter-Harris Type IV physeal fracture of upper end of humerus, right arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S49.041K | Salter-Harris Type IV physeal fracture of upper end of humerus, right arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S49.041P | Salter-Harris Type IV physeal fracture of upper end of humerus, right arm, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S49.041S | Salter-Harris Type IV physeal fracture of upper end of humerus, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S49.042  | Salter-Harris Type IV physeal fracture of upper end of humerus, left arm  | Diagnosis     | ICD-10-CM |
| S49.042A | Salter-Harris Type IV physeal fracture of upper end of humerus, left arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S49.042D | Salter-Harris Type IV physeal fracture of upper end of humerus, left arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S49.042G | Salter-Harris Type IV physeal fracture of upper end of humerus, left arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S49.042K | Salter-Harris Type IV physeal fracture of upper end of humerus, left arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S49.042P | Salter-Harris Type IV physeal fracture of upper end of humerus, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S49.042S | Salter-Harris Type IV physeal fracture of upper end of humerus, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S49.049  | Salter-Harris Type IV physeal fracture of upper end of humerus, unspecified arm   | Diagnosis     | ICD-10-CM |
| S49.049A | Salter-Harris Type IV physeal fracture of upper end of humerus, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S49.049D | Salter-Harris Type IV physeal fracture of upper end of humerus, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S49.049G | Salter-Harris Type IV physeal fracture of upper end of humerus, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S49.049K | Salter-Harris Type IV physeal fracture of upper end of humerus, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S49.049P | Salter-Harris Type IV physeal fracture of upper end of humerus, unspecified arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S49.049S | Salter-Harris Type IV physeal fracture of upper end of humerus, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S49.09   | Other physeal fracture of upper end of humerus  | Diagnosis     | ICD-10-CM |
| S49.091  | Other physeal fracture of upper end of humerus, right arm   | Diagnosis     | ICD-10-CM |
| S49.091A | Other physeal fracture of upper end of humerus, right arm, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S49.091D | Other physeal fracture of upper end of humerus, right arm, subsequent encounter for fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S49.091G | Other physeal fracture of upper end of humerus, right arm, subsequent encounter for fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S49.091K | Other physeal fracture of upper end of humerus, right arm, subsequent encounter for fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S49.091P | Other physeal fracture of upper end of humerus, right arm, subsequent encounter for fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S49.091S | Other physeal fracture of upper end of humerus, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S49.092  | Other physeal fracture of upper end of humerus, left arm  | Diagnosis     | ICD-10-CM |
| S49.092A | Other physeal fracture of upper end of humerus, left arm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S49.092D | Other physeal fracture of upper end of humerus, left arm, subsequent encounter for fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S49.092G | Other physeal fracture of upper end of humerus, left arm, subsequent encounter for fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S49.092K | Other physeal fracture of upper end of humerus, left arm, subsequent encounter for fracture with nonunion                               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S49.092P | Other physeal fracture of upper end of humerus, left arm, subsequent encounter for fracture with malunion                     | Diagnosis     | ICD-10-CM |
| S49.092S | Other physeal fracture of upper end of humerus, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S49.099  | Other physeal fracture of upper end of humerus, unspecified arm   | Diagnosis     | ICD-10-CM |
| S49.099A | Other physeal fracture of upper end of humerus, unspecified arm, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S49.099D | Other physeal fracture of upper end of humerus, unspecified arm, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S49.099G | Other physeal fracture of upper end of humerus, unspecified arm, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S49.099K | Other physeal fracture of upper end of humerus, unspecified arm, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S49.099P | Other physeal fracture of upper end of humerus, unspecified arm, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S49.099S | Other physeal fracture of upper end of humerus, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S49.1    | Physeal fracture of lower end of humerus  | Diagnosis     | ICD-10-CM |
| S49.10   | Unspecified physeal fracture of lower end of humerus  | Diagnosis     | ICD-10-CM |
| S49.101  | Unspecified physeal fracture of lower end of humerus, right arm   | Diagnosis     | ICD-10-CM |
| S49.101A | Unspecified physeal fracture of lower end of humerus, right arm, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S49.101D | Unspecified physeal fracture of lower end of humerus, right arm, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S49.101G | Unspecified physeal fracture of lower end of humerus, right arm, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S49.101K | Unspecified physeal fracture of lower end of humerus, right arm, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S49.101P | Unspecified physeal fracture of lower end of humerus, right arm, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S49.101S | Unspecified physeal fracture of lower end of humerus, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S49.102  | Unspecified physeal fracture of lower end of humerus, left arm  | Diagnosis     | ICD-10-CM |
| S49.102A | Unspecified physeal fracture of lower end of humerus, left arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S49.102D | Unspecified physeal fracture of lower end of humerus, left arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S49.102G | Unspecified physeal fracture of lower end of humerus, left arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S49.102K | Unspecified physeal fracture of lower end of humerus, left arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S49.102P | Unspecified physeal fracture of lower end of humerus, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S49.102S | Unspecified physeal fracture of lower end of humerus, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S49.109  | Unspecified physeal fracture of lower end of humerus, unspecified arm   | Diagnosis     | ICD-10-CM |
| S49.109A | Unspecified physeal fracture of lower end of humerus, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S49.109D | Unspecified physeal fracture of lower end of humerus, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S49.109G | Unspecified physeal fracture of lower end of humerus, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S49.109K | Unspecified physeal fracture of lower end of humerus, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S49.109P | Unspecified physeal fracture of lower end of humerus, unspecified arm, subsequent encounter for fracture with malunion                 | Diagnosis     | ICD-10-CM |
| S49.109S | Unspecified physeal fracture of lower end of humerus, unspecified arm, sequela   | Diagnosis     | ICD-10-CM |
| S49.111  | Salter-Harris Type I physeal fracture of lower end of humerus  | Diagnosis     | ICD-10-CM |
| S49.111  | Salter-Harris Type I physeal fracture of lower end of humerus, right arm   | Diagnosis     | ICD-10-CM |
| S49.111A | Salter-Harris Type I physeal fracture of lower end of humerus, right arm, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S49.111D | Salter-Harris Type I physeal fracture of lower end of humerus, right arm, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S49.111G | Salter-Harris Type I physeal fracture of lower end of humerus, right arm, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S49.111K | Salter-Harris Type I physeal fracture of lower end of humerus, right arm, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S49.111P | Salter-Harris Type I physeal fracture of lower end of humerus, right arm, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S49.111S | Salter-Harris Type I physeal fracture of lower end of humerus, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S49.112  | Salter-Harris Type I physeal fracture of lower end of humerus, left arm  | Diagnosis     | ICD-10-CM |
| S49.112A | Salter-Harris Type I physeal fracture of lower end of humerus, left arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S49.112D | Salter-Harris Type I physeal fracture of lower end of humerus, left arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S49.112G | Salter-Harris Type I physeal fracture of lower end of humerus, left arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S49.112K | Salter-Harris Type I physeal fracture of lower end of humerus, left arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S49.112P | Salter-Harris Type I physeal fracture of lower end of humerus, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S49.112S | Salter-Harris Type I physeal fracture of lower end of humerus, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S49.119  | Salter-Harris Type I physeal fracture of lower end of humerus, unspecified arm   | Diagnosis     | ICD-10-CM |
| S49.119A | Salter-Harris Type I physeal fracture of lower end of humerus, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S49.119D | Salter-Harris Type I physeal fracture of lower end of humerus, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S49.119G | Salter-Harris Type I physeal fracture of lower end of humerus, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S49.119K | Salter-Harris Type I physeal fracture of lower end of humerus, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S49.119P | Salter-Harris Type I physeal fracture of lower end of humerus, unspecified arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S49.119S | Salter-Harris Type I physeal fracture of lower end of humerus, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S49.12   | Salter-Harris Type II physeal fracture of lower end of humerus   | Diagnosis     | ICD-10-CM |
| S49.121  | Salter-Harris Type II physeal fracture of lower end of humerus, right arm  | Diagnosis     | ICD-10-CM |
| S49.121A | Salter-Harris Type II physeal fracture of lower end of humerus, right arm, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S49.121D | Salter-Harris Type II physeal fracture of lower end of humerus, right arm, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S49.121G | Salter-Harris Type II physeal fracture of lower end of humerus, right arm, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S49.121K | Salter-Harris Type II physeal fracture of lower end of humerus, right arm, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S49.121P | Salter-Harris Type II physeal fracture of lower end of humerus, right arm, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S49.121S | Salter-Harris Type II physeal fracture of lower end of humerus, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S49.122  | Salter-Harris Type II physeal fracture of lower end of humerus, left arm  | Diagnosis     | ICD-10-CM |
| S49.122A | Salter-Harris Type II physeal fracture of lower end of humerus, left arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S49.122D | Salter-Harris Type II physeal fracture of lower end of humerus, left arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S49.122G | Salter-Harris Type II physeal fracture of lower end of humerus, left arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S49.122K | Salter-Harris Type II physeal fracture of lower end of humerus, left arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S49.122P | Salter-Harris Type II physeal fracture of lower end of humerus, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S49.122S | Salter-Harris Type II physeal fracture of lower end of humerus, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S49.129  | Salter-Harris Type II physeal fracture of lower end of humerus, unspecified arm   | Diagnosis     | ICD-10-CM |
| S49.129A | Salter-Harris Type II physeal fracture of lower end of humerus, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S49.129D | Salter-Harris Type II physeal fracture of lower end of humerus, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S49.129G | Salter-Harris Type II physeal fracture of lower end of humerus, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S49.129K | Salter-Harris Type II physeal fracture of lower end of humerus, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S49.129P | Salter-Harris Type II physeal fracture of lower end of humerus, unspecified arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S49.129S | Salter-Harris Type II physeal fracture of lower end of humerus, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S49.13   | Salter-Harris Type III physeal fracture of lower end of humerus   | Diagnosis     | ICD-10-CM |
| S49.131  | Salter-Harris Type III physeal fracture of lower end of humerus, right arm  | Diagnosis     | ICD-10-CM |
| S49.131A | Salter-Harris Type III physeal fracture of lower end of humerus, right arm, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S49.131D | Salter-Harris Type III physeal fracture of lower end of humerus, right arm, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S49.131G | Salter-Harris Type III physeal fracture of lower end of humerus, right arm, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S49.131K | Salter-Harris Type III physeal fracture of lower end of humerus, right arm, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S49.131P | Salter-Harris Type III physeal fracture of lower end of humerus, right arm, subsequent encounter for fracture with malunion             | Diagnosis     | ICD-10-CM |
| S49.131S | Salter-Harris Type III physeal fracture of lower end of humerus, right arm, sequela   | Diagnosis     | ICD-10-CM |
| S49.132  | Salter-Harris Type III physeal fracture of lower end of humerus, left arm   | Diagnosis     | ICD-10-CM |
| S49.132A | Salter-Harris Type III physeal fracture of lower end of humerus, left arm, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S49.132D | Salter-Harris Type III physeal fracture of lower end of humerus, left arm, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S49.132G | Salter-Harris Type III physeal fracture of lower end of humerus, left arm, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S49.132K | Salter-Harris Type III physeal fracture of lower end of humerus, left arm, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S49.132P | Salter-Harris Type III physeal fracture of lower end of humerus, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S49.132S | Salter-Harris Type III physeal fracture of lower end of humerus, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S49.139  | Salter-Harris Type III physeal fracture of lower end of humerus, unspecified arm   | Diagnosis     | ICD-10-CM |
| S49.139A | Salter-Harris Type III physeal fracture of lower end of humerus, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S49.139D | Salter-Harris Type III physeal fracture of lower end of humerus, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S49.139G | Salter-Harris Type III physeal fracture of lower end of humerus, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S49.139K | Salter-Harris Type III physeal fracture of lower end of humerus, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S49.139P | Salter-Harris Type III physeal fracture of lower end of humerus, unspecified arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S49.139S | Salter-Harris Type III physeal fracture of lower end of humerus, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S49.14   | Salter-Harris Type IV physeal fracture of lower end of humerus   | Diagnosis     | ICD-10-CM |
| S49.141  | Salter-Harris Type IV physeal fracture of lower end of humerus, right arm  | Diagnosis     | ICD-10-CM |
| S49.141A | Salter-Harris Type IV physeal fracture of lower end of humerus, right arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S49.141D | Salter-Harris Type IV physeal fracture of lower end of humerus, right arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S49.141G | Salter-Harris Type IV physeal fracture of lower end of humerus, right arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S49.141K | Salter-Harris Type IV physeal fracture of lower end of humerus, right arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S49.141P | Salter-Harris Type IV physeal fracture of lower end of humerus, right arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S49.141S | Salter-Harris Type IV physeal fracture of lower end of humerus, right arm, sequela   | Diagnosis     | ICD-10-CM |
| S49.142  | Salter-Harris Type IV physeal fracture of lower end of humerus, left arm   | Diagnosis     | ICD-10-CM |
| S49.142A | Salter-Harris Type IV physeal fracture of lower end of humerus, left arm, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S49.142D | Salter-Harris Type IV physeal fracture of lower end of humerus, left arm, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S49.142G | Salter-Harris Type IV physeal fracture of lower end of humerus, left arm, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S49.142K | Salter-Harris Type IV physeal fracture of lower end of humerus, left arm, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S49.142P | Salter-Harris Type IV physeal fracture of lower end of humerus, left arm, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S49.142S | Salter-Harris Type IV physeal fracture of lower end of humerus, left arm, sequela  | Diagnosis     | ICD-10-CM |
| S49.149  | Salter-Harris Type IV physeal fracture of lower end of humerus, unspecified arm  | Diagnosis     | ICD-10-CM |
| S49.149A | Salter-Harris Type IV physeal fracture of lower end of humerus, unspecified arm, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S49.149D | Salter-Harris Type IV physeal fracture of lower end of humerus, unspecified arm, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S49.149G | Salter-Harris Type IV physeal fracture of lower end of humerus, unspecified arm, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S49.149K | Salter-Harris Type IV physeal fracture of lower end of humerus, unspecified arm, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S49.149P | Salter-Harris Type IV physeal fracture of lower end of humerus, unspecified arm, subsequent encounter for fracture with malunion | Diagnosis     | ICD-10-CM |
| S49.149S | Salter-Harris Type IV physeal fracture of lower end of humerus, unspecified arm, sequela   | Diagnosis     | ICD-10-CM |
| S49.19   | Other physeal fracture of lower end of humerus   | Diagnosis     | ICD-10-CM |
| S49.191  | Other physeal fracture of lower end of humerus, right arm  | Diagnosis     | ICD-10-CM |
| S49.191A | Other physeal fracture of lower end of humerus, right arm, initial encounter for closed fracture                                 | Diagnosis     | ICD-10-CM |
| S49.191D | Other physeal fracture of lower end of humerus, right arm, subsequent encounter for fracture with routine healing                | Diagnosis     | ICD-10-CM |
| S49.191G | Other physeal fracture of lower end of humerus, right arm, subsequent encounter for fracture with delayed healing                | Diagnosis     | ICD-10-CM |
| S49.191K | Other physeal fracture of lower end of humerus, right arm, subsequent encounter for fracture with nonunion                       | Diagnosis     | ICD-10-CM |
| S49.191P | Other physeal fracture of lower end of humerus, right arm, subsequent encounter for fracture with malunion                       | Diagnosis     | ICD-10-CM |
| S49.191S | Other physeal fracture of lower end of humerus, right arm, sequela   | Diagnosis     | ICD-10-CM |
| S49.192  | Other physeal fracture of lower end of humerus, left arm   | Diagnosis     | ICD-10-CM |
| S49.192A | Other physeal fracture of lower end of humerus, left arm, initial encounter for closed fracture                                  | Diagnosis     | ICD-10-CM |
| S49.192D | Other physeal fracture of lower end of humerus, left arm, subsequent encounter for fracture with routine healing                 | Diagnosis     | ICD-10-CM |
| S49.192G | Other physeal fracture of lower end of humerus, left arm, subsequent encounter for fracture with delayed healing                 | Diagnosis     | ICD-10-CM |
| S49.192K | Other physeal fracture of lower end of humerus, left arm, subsequent encounter for fracture with nonunion                        | Diagnosis     | ICD-10-CM |
| S49.192P | Other physeal fracture of lower end of humerus, left arm, subsequent encounter for fracture with malunion                        | Diagnosis     | ICD-10-CM |
| S49.192S | Other physeal fracture of lower end of humerus, left arm, sequela  | Diagnosis     | ICD-10-CM |
| S49.199  | Other physeal fracture of lower end of humerus, unspecified arm  | Diagnosis     | ICD-10-CM |
| S49.199A | Other physeal fracture of lower end of humerus, unspecified arm, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S49.199D | Other physeal fracture of lower end of humerus, unspecified arm, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S49.199G | Other physeal fracture of lower end of humerus, unspecified arm, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S49.199K | Other physeal fracture of lower end of humerus, unspecified arm, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S49.199P | Other physeal fracture of lower end of humerus, unspecified arm, subsequent encounter for fracture with malunion                 | Diagnosis     | ICD-10-CM |
| S49.199S | Other physeal fracture of lower end of humerus, unspecified arm, sequela   | Diagnosis     | ICD-10-CM |
| S49.8    | Other specified injuries of shoulder and upper arm   | Diagnosis     | ICD-10-CM |
| S49.80   | Other specified injuries of shoulder and upper arm, unspecified arm  | Diagnosis     | ICD-10-CM |
| S49.80XA | Other specified injuries of shoulder and upper arm, unspecified arm, initial encounter   | Diagnosis     | ICD-10-CM |
| S49.80XD | Other specified injuries of shoulder and upper arm, unspecified arm, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S49.80XS | Other specified injuries of shoulder and upper arm, unspecified arm, sequela   | Diagnosis     | ICD-10-CM |
| S49.81   | Other specified injuries of right shoulder and upper arm   | Diagnosis     | ICD-10-CM |
| S49.81XA | Other specified injuries of right shoulder and upper arm, initial encounter  | Diagnosis     | ICD-10-CM |
| S49.81XD | Other specified injuries of right shoulder and upper arm, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S49.81XS | Other specified injuries of right shoulder and upper arm, sequela  | Diagnosis     | ICD-10-CM |
| S49.82   | Other specified injuries of left shoulder and upper arm  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S49.82XA | Other specified injuries of left shoulder and upper arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S49.82XD | Other specified injuries of left shoulder and upper arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S49.82XS | Other specified injuries of left shoulder and upper arm, sequela                    | Diagnosis     | ICD-10-CM |
| S49.9    | Unspecified injury of shoulder and upper arm  | Diagnosis     | ICD-10-CM |
| S49.90   | Unspecified injury of shoulder and upper arm, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S49.90XA | Unspecified injury of shoulder and upper arm, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S49.90XD | Unspecified injury of shoulder and upper arm, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S49.90XS | Unspecified injury of shoulder and upper arm, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S49.91   | Unspecified injury of right shoulder and upper arm                                  | Diagnosis     | ICD-10-CM |
| S49.91XA | Unspecified injury of right shoulder and upper arm, initial encounter               | Diagnosis     | ICD-10-CM |
| S49.91XD | Unspecified injury of right shoulder and upper arm, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S49.91XS | Unspecified injury of right shoulder and upper arm, sequela                         | Diagnosis     | ICD-10-CM |
| S49.92   | Unspecified injury of left shoulder and upper arm                                   | Diagnosis     | ICD-10-CM |
| S49.92XA | Unspecified injury of left shoulder and upper arm, initial encounter                | Diagnosis     | ICD-10-CM |
| S49.92XD | Unspecified injury of left shoulder and upper arm, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S49.92XS | Unspecified injury of left shoulder and upper arm, sequela                          | Diagnosis     | ICD-10-CM |
| S50      | Superficial injury of elbow and forearm   | Diagnosis     | ICD-10-CM |
| S50.0    | Contusion of elbow  | Diagnosis     | ICD-10-CM |
| S50.00   | Contusion of unspecified elbow  | Diagnosis     | ICD-10-CM |
| S50.00XA | Contusion of unspecified elbow, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S50.00XD | Contusion of unspecified elbow, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S50.00XS | Contusion of unspecified elbow, sequela   | Diagnosis     | ICD-10-CM |
| S50.01   | Contusion of right elbow  | Diagnosis     | ICD-10-CM |
| S50.01XA | Contusion of right elbow, initial encounter   | Diagnosis     | ICD-10-CM |
| S50.01XD | Contusion of right elbow, subsequent encounter                                      | Diagnosis     | ICD-10-CM |
| S50.01XS | Contusion of right elbow, sequela   | Diagnosis     | ICD-10-CM |
| S50.02   | Contusion of left elbow   | Diagnosis     | ICD-10-CM |
| S50.02XA | Contusion of left elbow, initial encounter  | Diagnosis     | ICD-10-CM |
| S50.02XD | Contusion of left elbow, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S50.02XS | Contusion of left elbow, sequela  | Diagnosis     | ICD-10-CM |
| S50.1    | Contusion of forearm  | Diagnosis     | ICD-10-CM |
| S50.10   | Contusion of unspecified forearm  | Diagnosis     | ICD-10-CM |
| S50.10XA | Contusion of unspecified forearm, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S50.10XD | Contusion of unspecified forearm, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S50.10XS | Contusion of unspecified forearm, sequela   | Diagnosis     | ICD-10-CM |
| S50.11   | Contusion of right forearm  | Diagnosis     | ICD-10-CM |
| S50.11XA | Contusion of right forearm, initial encounter                                       | Diagnosis     | ICD-10-CM |
| S50.11XD | Contusion of right forearm, subsequent encounter                                    | Diagnosis     | ICD-10-CM |
| S50.11XS | Contusion of right forearm, sequela   | Diagnosis     | ICD-10-CM |
| S50.12   | Contusion of left forearm   | Diagnosis     | ICD-10-CM |
| S50.12XA | Contusion of left forearm, initial encounter  | Diagnosis     | ICD-10-CM |
| S50.12XD | Contusion of left forearm, subsequent encounter                                     | Diagnosis     | ICD-10-CM |
| S50.12XS | Contusion of left forearm, sequela  | Diagnosis     | ICD-10-CM |
| S50.3    | Other superficial injuries of elbow   | Diagnosis     | ICD-10-CM |
| S50.31   | Abrasion of elbow   | Diagnosis     | ICD-10-CM |
| S50.311  | Abrasion of right elbow   | Diagnosis     | ICD-10-CM |
| S50.311A | Abrasion of right elbow, initial encounter  | Diagnosis     | ICD-10-CM |
| S50.311D | Abrasion of right elbow, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S50.311S | Abrasion of right elbow, sequela  | Diagnosis     | ICD-10-CM |
| S50.312  | Abrasion of left elbow  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S50.312A | Abrasion of left elbow, initial encounter                           | Diagnosis     | ICD-10-CM |
| S50.312D | Abrasion of left elbow, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S50.312S | Abrasion of left elbow, sequela                                     | Diagnosis     | ICD-10-CM |
| S50.319  | Abrasion of unspecified elbow                                       | Diagnosis     | ICD-10-CM |
| S50.319A | Abrasion of unspecified elbow, initial encounter                    | Diagnosis     | ICD-10-CM |
| S50.319D | Abrasion of unspecified elbow, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S50.319S | Abrasion of unspecified elbow, sequela                              | Diagnosis     | ICD-10-CM |
| S50.32   | Blister (nonthermal) of elbow                                       | Diagnosis     | ICD-10-CM |
| S50.321  | Blister (nonthermal) of right elbow                                 | Diagnosis     | ICD-10-CM |
| S50.321A | Blister (nonthermal) of right elbow, initial encounter              | Diagnosis     | ICD-10-CM |
| S50.321D | Blister (nonthermal) of right elbow, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S50.321S | Blister (nonthermal) of right elbow, sequela                        | Diagnosis     | ICD-10-CM |
| S50.322  | Blister (nonthermal) of left elbow                                  | Diagnosis     | ICD-10-CM |
| S50.322A | Blister (nonthermal) of left elbow, initial encounter               | Diagnosis     | ICD-10-CM |
| S50.322D | Blister (nonthermal) of left elbow, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S50.322S | Blister (nonthermal) of left elbow, sequela                         | Diagnosis     | ICD-10-CM |
| S50.329  | Blister (nonthermal) of unspecified elbow                           | Diagnosis     | ICD-10-CM |
| S50.329A | Blister (nonthermal) of unspecified elbow, initial encounter        | Diagnosis     | ICD-10-CM |
| S50.329D | Blister (nonthermal) of unspecified elbow, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S50.329S | Blister (nonthermal) of unspecified elbow, sequela                  | Diagnosis     | ICD-10-CM |
| S50.34   | External constriction of elbow                                      | Diagnosis     | ICD-10-CM |
| S50.341  | External constriction of right elbow                                | Diagnosis     | ICD-10-CM |
| S50.341A | External constriction of right elbow, initial encounter             | Diagnosis     | ICD-10-CM |
| S50.341D | External constriction of right elbow, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S50.341S | External constriction of right elbow, sequela                       | Diagnosis     | ICD-10-CM |
| S50.342  | External constriction of left elbow                                 | Diagnosis     | ICD-10-CM |
| S50.342A | External constriction of left elbow, initial encounter              | Diagnosis     | ICD-10-CM |
| S50.342D | External constriction of left elbow, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S50.342S | External constriction of left elbow, sequela                        | Diagnosis     | ICD-10-CM |
| S50.349  | External constriction of unspecified elbow                          | Diagnosis     | ICD-10-CM |
| S50.349A | External constriction of unspecified elbow, initial encounter       | Diagnosis     | ICD-10-CM |
| S50.349D | External constriction of unspecified elbow, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S50.349S | External constriction of unspecified elbow, sequela                 | Diagnosis     | ICD-10-CM |
| S50.35   | Superficial foreign body of elbow                                   | Diagnosis     | ICD-10-CM |
| S50.351  | Superficial foreign body of right elbow                             | Diagnosis     | ICD-10-CM |
| S50.351A | Superficial foreign body of right elbow, initial encounter          | Diagnosis     | ICD-10-CM |
| S50.351D | Superficial foreign body of right elbow, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S50.351S | Superficial foreign body of right elbow, sequela                    | Diagnosis     | ICD-10-CM |
| S50.352  | Superficial foreign body of left elbow                              | Diagnosis     | ICD-10-CM |
| S50.352A | Superficial foreign body of left elbow, initial encounter           | Diagnosis     | ICD-10-CM |
| S50.352D | Superficial foreign body of left elbow, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S50.352S | Superficial foreign body of left elbow, sequela                     | Diagnosis     | ICD-10-CM |
| S50.359  | Superficial foreign body of unspecified elbow                       | Diagnosis     | ICD-10-CM |
| S50.359A | Superficial foreign body of unspecified elbow, initial encounter    | Diagnosis     | ICD-10-CM |
| S50.359D | Superficial foreign body of unspecified elbow, subsequent encounter | Diagnosis     | ICD-10-CM |
| S50.359S | Superficial foreign body of unspecified elbow, sequela              | Diagnosis     | ICD-10-CM |
| S50.36   | Insect bite (nonvenomous) of elbow                                  | Diagnosis     | ICD-10-CM |
| S50.361  | Insect bite (nonvenomous) of right elbow                            | Diagnosis     | ICD-10-CM |
| S50.361A | Insect bite (nonvenomous) of right elbow, initial encounter         | Diagnosis     | ICD-10-CM |
| S50.361D | Insect bite (nonvenomous) of right elbow, subsequent encounter      | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S50.361S | Insect bite (nonvenomous) of right elbow, sequela                    | Diagnosis     | ICD-10-CM |
| S50.362  | Insect bite (nonvenomous) of left elbow                              | Diagnosis     | ICD-10-CM |
| S50.362A | Insect bite (nonvenomous) of left elbow, initial encounter           | Diagnosis     | ICD-10-CM |
| S50.362D | Insect bite (nonvenomous) of left elbow, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S50.362S | Insect bite (nonvenomous) of left elbow, sequela                     | Diagnosis     | ICD-10-CM |
| S50.369  | Insect bite (nonvenomous) of unspecified elbow                       | Diagnosis     | ICD-10-CM |
| S50.369A | Insect bite (nonvenomous) of unspecified elbow, initial encounter    | Diagnosis     | ICD-10-CM |
| S50.369D | Insect bite (nonvenomous) of unspecified elbow, subsequent encounter | Diagnosis     | ICD-10-CM |
| S50.369S | Insect bite (nonvenomous) of unspecified elbow, sequela              | Diagnosis     | ICD-10-CM |
| S50.37   | Other superficial bite of elbow                                      | Diagnosis     | ICD-10-CM |
| S50.371  | Other superficial bite of right elbow                                | Diagnosis     | ICD-10-CM |
| S50.371A | Other superficial bite of right elbow, initial encounter             | Diagnosis     | ICD-10-CM |
| S50.371D | Other superficial bite of right elbow, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S50.371S | Other superficial bite of right elbow, sequela                       | Diagnosis     | ICD-10-CM |
| S50.372  | Other superficial bite of left elbow                                 | Diagnosis     | ICD-10-CM |
| S50.372A | Other superficial bite of left elbow, initial encounter              | Diagnosis     | ICD-10-CM |
| S50.372D | Other superficial bite of left elbow, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S50.372S | Other superficial bite of left elbow, sequela                        | Diagnosis     | ICD-10-CM |
| S50.379  | Other superficial bite of unspecified elbow                          | Diagnosis     | ICD-10-CM |
| S50.379A | Other superficial bite of unspecified elbow, initial encounter       | Diagnosis     | ICD-10-CM |
| S50.379D | Other superficial bite of unspecified elbow, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S50.379S | Other superficial bite of unspecified elbow, sequela                 | Diagnosis     | ICD-10-CM |
| S50.8    | Other superficial injuries of forearm                                | Diagnosis     | ICD-10-CM |
| S50.81   | Abrasion of forearm  | Diagnosis     | ICD-10-CM |
| S50.811  | Abrasion of right forearm  | Diagnosis     | ICD-10-CM |
| S50.811A | Abrasion of right forearm, initial encounter                         | Diagnosis     | ICD-10-CM |
| S50.811D | Abrasion of right forearm, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S50.811S | Abrasion of right forearm, sequela                                   | Diagnosis     | ICD-10-CM |
| S50.812  | Abrasion of left forearm   | Diagnosis     | ICD-10-CM |
| S50.812A | Abrasion of left forearm, initial encounter                          | Diagnosis     | ICD-10-CM |
| S50.812D | Abrasion of left forearm, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S50.812S | Abrasion of left forearm, sequela                                    | Diagnosis     | ICD-10-CM |
| S50.819  | Abrasion of unspecified forearm                                      | Diagnosis     | ICD-10-CM |
| S50.819A | Abrasion of unspecified forearm, initial encounter                   | Diagnosis     | ICD-10-CM |
| S50.819D | Abrasion of unspecified forearm, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S50.819S | Abrasion of unspecified forearm, sequela                             | Diagnosis     | ICD-10-CM |
| S50.82   | Blister (nonthermal) of forearm                                      | Diagnosis     | ICD-10-CM |
| S50.821  | Blister (nonthermal) of right forearm                                | Diagnosis     | ICD-10-CM |
| S50.821A | Blister (nonthermal) of right forearm, initial encounter             | Diagnosis     | ICD-10-CM |
| S50.821D | Blister (nonthermal) of right forearm, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S50.821S | Blister (nonthermal) of right forearm, sequela                       | Diagnosis     | ICD-10-CM |
| S50.822  | Blister (nonthermal) of left forearm                                 | Diagnosis     | ICD-10-CM |
| S50.822A | Blister (nonthermal) of left forearm, initial encounter              | Diagnosis     | ICD-10-CM |
| S50.822D | Blister (nonthermal) of left forearm, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S50.822S | Blister (nonthermal) of left forearm, sequela                        | Diagnosis     | ICD-10-CM |
| S50.829  | Blister (nonthermal) of unspecified forearm                          | Diagnosis     | ICD-10-CM |
| S50.829A | Blister (nonthermal) of unspecified forearm, initial encounter       | Diagnosis     | ICD-10-CM |
| S50.829D | Blister (nonthermal) of unspecified forearm, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S50.829S | Blister (nonthermal) of unspecified forearm, sequela                 | Diagnosis     | ICD-10-CM |
| S50.84   | External constriction of forearm                                     | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S50.841  | External constriction of right forearm                                 | Diagnosis     | ICD-10-CM |
| S50.841A | External constriction of right forearm, initial encounter              | Diagnosis     | ICD-10-CM |
| S50.841D | External constriction of right forearm, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S50.841S | External constriction of right forearm, sequela                        | Diagnosis     | ICD-10-CM |
| S50.842  | External constriction of left forearm                                  | Diagnosis     | ICD-10-CM |
| S50.842A | External constriction of left forearm, initial encounter               | Diagnosis     | ICD-10-CM |
| S50.842D | External constriction of left forearm, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S50.842S | External constriction of left forearm, sequela                         | Diagnosis     | ICD-10-CM |
| S50.849  | External constriction of unspecified forearm                           | Diagnosis     | ICD-10-CM |
| S50.849A | External constriction of unspecified forearm, initial encounter        | Diagnosis     | ICD-10-CM |
| S50.849D | External constriction of unspecified forearm, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S50.849S | External constriction of unspecified forearm, sequela                  | Diagnosis     | ICD-10-CM |
| S50.85   | Superficial foreign body of forearm                                    | Diagnosis     | ICD-10-CM |
| S50.851  | Superficial foreign body of right forearm                              | Diagnosis     | ICD-10-CM |
| S50.851A | Superficial foreign body of right forearm, initial encounter           | Diagnosis     | ICD-10-CM |
| S50.851D | Superficial foreign body of right forearm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S50.851S | Superficial foreign body of right forearm, sequela                     | Diagnosis     | ICD-10-CM |
| S50.852  | Superficial foreign body of left forearm                               | Diagnosis     | ICD-10-CM |
| S50.852A | Superficial foreign body of left forearm, initial encounter            | Diagnosis     | ICD-10-CM |
| S50.852D | Superficial foreign body of left forearm, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S50.852S | Superficial foreign body of left forearm, sequela                      | Diagnosis     | ICD-10-CM |
| S50.859  | Superficial foreign body of unspecified forearm                        | Diagnosis     | ICD-10-CM |
| S50.859A | Superficial foreign body of unspecified forearm, initial encounter     | Diagnosis     | ICD-10-CM |
| S50.859D | Superficial foreign body of unspecified forearm, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S50.859S | Superficial foreign body of unspecified forearm, sequela               | Diagnosis     | ICD-10-CM |
| S50.86   | Insect bite (nonvenomous) of forearm                                   | Diagnosis     | ICD-10-CM |
| S50.861  | Insect bite (nonvenomous) of right forearm                             | Diagnosis     | ICD-10-CM |
| S50.861A | Insect bite (nonvenomous) of right forearm, initial encounter          | Diagnosis     | ICD-10-CM |
| S50.861D | Insect bite (nonvenomous) of right forearm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S50.861S | Insect bite (nonvenomous) of right forearm, sequela                    | Diagnosis     | ICD-10-CM |
| S50.862  | Insect bite (nonvenomous) of left forearm                              | Diagnosis     | ICD-10-CM |
| S50.862A | Insect bite (nonvenomous) of left forearm, initial encounter           | Diagnosis     | ICD-10-CM |
| S50.862D | Insect bite (nonvenomous) of left forearm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S50.862S | Insect bite (nonvenomous) of left forearm, sequela                     | Diagnosis     | ICD-10-CM |
| S50.869  | Insect bite (nonvenomous) of unspecified forearm                       | Diagnosis     | ICD-10-CM |
| S50.869A | Insect bite (nonvenomous) of unspecified forearm, initial encounter    | Diagnosis     | ICD-10-CM |
| S50.869D | Insect bite (nonvenomous) of unspecified forearm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S50.869S | Insect bite (nonvenomous) of unspecified forearm, sequela              | Diagnosis     | ICD-10-CM |
| S50.87   | Other superficial bite of forearm                                      | Diagnosis     | ICD-10-CM |
| S50.871  | Other superficial bite of right forearm                                | Diagnosis     | ICD-10-CM |
| S50.871A | Other superficial bite of right forearm, initial encounter             | Diagnosis     | ICD-10-CM |
| S50.871D | Other superficial bite of right forearm, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S50.871S | Other superficial bite of right forearm, sequela                       | Diagnosis     | ICD-10-CM |
| S50.872  | Other superficial bite of left forearm                                 | Diagnosis     | ICD-10-CM |
| S50.872A | Other superficial bite of left forearm, initial encounter              | Diagnosis     | ICD-10-CM |
| S50.872D | Other superficial bite of left forearm, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S50.872S | Other superficial bite of left forearm, sequela                        | Diagnosis     | ICD-10-CM |
| S50.879  | Other superficial bite of unspecified forearm                          | Diagnosis     | ICD-10-CM |
| S50.879A | Other superficial bite of unspecified forearm, initial encounter       | Diagnosis     | ICD-10-CM |
| S50.879D | Other superficial bite of unspecified forearm, subsequent encounter    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S50.879S | Other superficial bite of unspecified forearm, sequela                      | Diagnosis     | ICD-10-CM |
| S50.9    | Unspecified superficial injury of elbow and forearm                         | Diagnosis     | ICD-10-CM |
| S50.90   | Unspecified superficial injury of elbow                                     | Diagnosis     | ICD-10-CM |
| S50.901  | Unspecified superficial injury of right elbow                               | Diagnosis     | ICD-10-CM |
| S50.901A | Unspecified superficial injury of right elbow, initial encounter            | Diagnosis     | ICD-10-CM |
| S50.901D | Unspecified superficial injury of right elbow, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S50.901S | Unspecified superficial injury of right elbow, sequela                      | Diagnosis     | ICD-10-CM |
| S50.902  | Unspecified superficial injury of left elbow                                | Diagnosis     | ICD-10-CM |
| S50.902A | Unspecified superficial injury of left elbow, initial encounter             | Diagnosis     | ICD-10-CM |
| S50.902D | Unspecified superficial injury of left elbow, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S50.902S | Unspecified superficial injury of left elbow, sequela                       | Diagnosis     | ICD-10-CM |
| S50.909  | Unspecified superficial injury of unspecified elbow                         | Diagnosis     | ICD-10-CM |
| S50.909A | Unspecified superficial injury of unspecified elbow, initial encounter      | Diagnosis     | ICD-10-CM |
| S50.909D | Unspecified superficial injury of unspecified elbow, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S50.909S | Unspecified superficial injury of unspecified elbow, sequela                | Diagnosis     | ICD-10-CM |
| S50.91   | Unspecified superficial injury of forearm                                   | Diagnosis     | ICD-10-CM |
| S50.911  | Unspecified superficial injury of right forearm                             | Diagnosis     | ICD-10-CM |
| S50.911A | Unspecified superficial injury of right forearm, initial encounter          | Diagnosis     | ICD-10-CM |
| S50.911D | Unspecified superficial injury of right forearm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S50.911S | Unspecified superficial injury of right forearm, sequela                    | Diagnosis     | ICD-10-CM |
| S50.912  | Unspecified superficial injury of left forearm                              | Diagnosis     | ICD-10-CM |
| S50.912A | Unspecified superficial injury of left forearm, initial encounter           | Diagnosis     | ICD-10-CM |
| S50.912D | Unspecified superficial injury of left forearm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S50.912S | Unspecified superficial injury of left forearm, sequela                     | Diagnosis     | ICD-10-CM |
| S50.919  | Unspecified superficial injury of unspecified forearm                       | Diagnosis     | ICD-10-CM |
| S50.919A | Unspecified superficial injury of unspecified forearm, initial encounter    | Diagnosis     | ICD-10-CM |
| S50.919D | Unspecified superficial injury of unspecified forearm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S50.919S | Unspecified superficial injury of unspecified forearm, sequela              | Diagnosis     | ICD-10-CM |
| S51      | Open wound of elbow and forearm   | Diagnosis     | ICD-10-CM |
| S51.0    | Open wound of elbow   | Diagnosis     | ICD-10-CM |
| S51.00   | Unspecified open wound of elbow   | Diagnosis     | ICD-10-CM |
| S51.001  | Unspecified open wound of right elbow                                       | Diagnosis     | ICD-10-CM |
| S51.001A | Unspecified open wound of right elbow, initial encounter                    | Diagnosis     | ICD-10-CM |
| S51.001D | Unspecified open wound of right elbow, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S51.001S | Unspecified open wound of right elbow, sequela                              | Diagnosis     | ICD-10-CM |
| S51.002  | Unspecified open wound of left elbow  | Diagnosis     | ICD-10-CM |
| S51.002A | Unspecified open wound of left elbow, initial encounter                     | Diagnosis     | ICD-10-CM |
| S51.002D | Unspecified open wound of left elbow, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S51.002S | Unspecified open wound of left elbow, sequela                               | Diagnosis     | ICD-10-CM |
| S51.009  | Unspecified open wound of unspecified elbow                                 | Diagnosis     | ICD-10-CM |
| S51.009A | Unspecified open wound of unspecified elbow, initial encounter              | Diagnosis     | ICD-10-CM |
| S51.009D | Unspecified open wound of unspecified elbow, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S51.009S | Unspecified open wound of unspecified elbow, sequela                        | Diagnosis     | ICD-10-CM |
| S51.01   | Laceration without foreign body of elbow                                    | Diagnosis     | ICD-10-CM |
| S51.011  | Laceration without foreign body of right elbow                              | Diagnosis     | ICD-10-CM |
| S51.011A | Laceration without foreign body of right elbow, initial encounter           | Diagnosis     | ICD-10-CM |
| S51.011D | Laceration without foreign body of right elbow, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S51.011S | Laceration without foreign body of right elbow, sequela                     | Diagnosis     | ICD-10-CM |
| S51.012  | Laceration without foreign body of left elbow                               | Diagnosis     | ICD-10-CM |
| S51.012A | Laceration without foreign body of left elbow, initial encounter            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S51.012D | Laceration without foreign body of left elbow, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S51.012S | Laceration without foreign body of left elbow, sequela                         | Diagnosis     | ICD-10-CM |
| S51.019  | Laceration without foreign body of unspecified elbow                           | Diagnosis     | ICD-10-CM |
| S51.019A | Laceration without foreign body of unspecified elbow, initial encounter        | Diagnosis     | ICD-10-CM |
| S51.019D | Laceration without foreign body of unspecified elbow, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S51.019S | Laceration without foreign body of unspecified elbow, sequela                  | Diagnosis     | ICD-10-CM |
| S51.02   | Laceration with foreign body of elbow  | Diagnosis     | ICD-10-CM |
| S51.021  | Laceration with foreign body of right elbow                                    | Diagnosis     | ICD-10-CM |
| S51.021A | Laceration with foreign body of right elbow, initial encounter                 | Diagnosis     | ICD-10-CM |
| S51.021D | Laceration with foreign body of right elbow, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S51.021S | Laceration with foreign body of right elbow, sequela                           | Diagnosis     | ICD-10-CM |
| S51.022  | Laceration with foreign body of left elbow                                     | Diagnosis     | ICD-10-CM |
| S51.022A | Laceration with foreign body of left elbow, initial encounter                  | Diagnosis     | ICD-10-CM |
| S51.022D | Laceration with foreign body of left elbow, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S51.022S | Laceration with foreign body of left elbow, sequela                            | Diagnosis     | ICD-10-CM |
| S51.029  | Laceration with foreign body of unspecified elbow                              | Diagnosis     | ICD-10-CM |
| S51.029A | Laceration with foreign body of unspecified elbow, initial encounter           | Diagnosis     | ICD-10-CM |
| S51.029D | Laceration with foreign body of unspecified elbow, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S51.029S | Laceration with foreign body of unspecified elbow, sequela                     | Diagnosis     | ICD-10-CM |
| S51.03   | Puncture wound without foreign body of elbow                                   | Diagnosis     | ICD-10-CM |
| S51.031  | Puncture wound without foreign body of right elbow                             | Diagnosis     | ICD-10-CM |
| S51.031A | Puncture wound without foreign body of right elbow, initial encounter          | Diagnosis     | ICD-10-CM |
| S51.031D | Puncture wound without foreign body of right elbow, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S51.031S | Puncture wound without foreign body of right elbow, sequela                    | Diagnosis     | ICD-10-CM |
| S51.032  | Puncture wound without foreign body of left elbow                              | Diagnosis     | ICD-10-CM |
| S51.032A | Puncture wound without foreign body of left elbow, initial encounter           | Diagnosis     | ICD-10-CM |
| S51.032D | Puncture wound without foreign body of left elbow, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S51.032S | Puncture wound without foreign body of left elbow, sequela                     | Diagnosis     | ICD-10-CM |
| S51.039  | Puncture wound without foreign body of unspecified elbow                       | Diagnosis     | ICD-10-CM |
| S51.039A | Puncture wound without foreign body of unspecified elbow, initial encounter    | Diagnosis     | ICD-10-CM |
| S51.039D | Puncture wound without foreign body of unspecified elbow, subsequent encounter | Diagnosis     | ICD-10-CM |
| S51.039S | Puncture wound without foreign body of unspecified elbow, sequela              | Diagnosis     | ICD-10-CM |
| S51.04   | Puncture wound with foreign body of elbow                                      | Diagnosis     | ICD-10-CM |
| S51.041  | Puncture wound with foreign body of right elbow                                | Diagnosis     | ICD-10-CM |
| S51.041A | Puncture wound with foreign body of right elbow, initial encounter             | Diagnosis     | ICD-10-CM |
| S51.041D | Puncture wound with foreign body of right elbow, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S51.041S | Puncture wound with foreign body of right elbow, sequela                       | Diagnosis     | ICD-10-CM |
| S51.042  | Puncture wound with foreign body of left elbow                                 | Diagnosis     | ICD-10-CM |
| S51.042A | Puncture wound with foreign body of left elbow, initial encounter              | Diagnosis     | ICD-10-CM |
| S51.042D | Puncture wound with foreign body of left elbow, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S51.042S | Puncture wound with foreign body of left elbow, sequela                        | Diagnosis     | ICD-10-CM |
| S51.049  | Puncture wound with foreign body of unspecified elbow                          | Diagnosis     | ICD-10-CM |
| S51.049A | Puncture wound with foreign body of unspecified elbow, initial encounter       | Diagnosis     | ICD-10-CM |
| S51.049D | Puncture wound with foreign body of unspecified elbow, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S51.049S | Puncture wound with foreign body of unspecified elbow, sequela                 | Diagnosis     | ICD-10-CM |
| S51.05   | Open bite of elbow   | Diagnosis     | ICD-10-CM |
| S51.051  | Open bite, right elbow   | Diagnosis     | ICD-10-CM |
| S51.051A | Open bite, right elbow, initial encounter                                      | Diagnosis     | ICD-10-CM |
| S51.051D | Open bite, right elbow, subsequent encounter                                   | Diagnosis     | ICD-10-CM |
| S51.051S | Open bite, right elbow, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S51.052  | Open bite, left elbow  | Diagnosis     | ICD-10-CM |
| S51.052A | Open bite, left elbow, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S51.052D | Open bite, left elbow, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S51.052S | Open bite, left elbow, sequela   | Diagnosis     | ICD-10-CM |
| S51.059  | Open bite, unspecified elbow   | Diagnosis     | ICD-10-CM |
| S51.059A | Open bite, unspecified elbow, initial encounter                              | Diagnosis     | ICD-10-CM |
| S51.059D | Open bite, unspecified elbow, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S51.059S | Open bite, unspecified elbow, sequela  | Diagnosis     | ICD-10-CM |
| S51.8    | Open wound of forearm  | Diagnosis     | ICD-10-CM |
| S51.80   | Unspecified open wound of forearm  | Diagnosis     | ICD-10-CM |
| S51.801  | Unspecified open wound of right forearm                                      | Diagnosis     | ICD-10-CM |
| S51.801A | Unspecified open wound of right forearm, initial encounter                   | Diagnosis     | ICD-10-CM |
| S51.801D | Unspecified open wound of right forearm, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S51.801S | Unspecified open wound of right forearm, sequela                             | Diagnosis     | ICD-10-CM |
| S51.802  | Unspecified open wound of left forearm                                       | Diagnosis     | ICD-10-CM |
| S51.802A | Unspecified open wound of left forearm, initial encounter                    | Diagnosis     | ICD-10-CM |
| S51.802D | Unspecified open wound of left forearm, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S51.802S | Unspecified open wound of left forearm, sequela                              | Diagnosis     | ICD-10-CM |
| S51.809  | Unspecified open wound of unspecified forearm                                | Diagnosis     | ICD-10-CM |
| S51.809A | Unspecified open wound of unspecified forearm, initial encounter             | Diagnosis     | ICD-10-CM |
| S51.809D | Unspecified open wound of unspecified forearm, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S51.809S | Unspecified open wound of unspecified forearm, sequela                       | Diagnosis     | ICD-10-CM |
| S51.81   | Laceration without foreign body of forearm                                   | Diagnosis     | ICD-10-CM |
| S51.811  | Laceration without foreign body of right forearm                             | Diagnosis     | ICD-10-CM |
| S51.811A | Laceration without foreign body of right forearm, initial encounter          | Diagnosis     | ICD-10-CM |
| S51.811D | Laceration without foreign body of right forearm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S51.811S | Laceration without foreign body of right forearm, sequela                    | Diagnosis     | ICD-10-CM |
| S51.812  | Laceration without foreign body of left forearm                              | Diagnosis     | ICD-10-CM |
| S51.812A | Laceration without foreign body of left forearm, initial encounter           | Diagnosis     | ICD-10-CM |
| S51.812D | Laceration without foreign body of left forearm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S51.812S | Laceration without foreign body of left forearm, sequela                     | Diagnosis     | ICD-10-CM |
| S51.819  | Laceration without foreign body of unspecified forearm                       | Diagnosis     | ICD-10-CM |
| S51.819A | Laceration without foreign body of unspecified forearm, initial encounter    | Diagnosis     | ICD-10-CM |
| S51.819D | Laceration without foreign body of unspecified forearm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S51.819S | Laceration without foreign body of unspecified forearm, sequela              | Diagnosis     | ICD-10-CM |
| S51.82   | Laceration with foreign body of forearm                                      | Diagnosis     | ICD-10-CM |
| S51.821  | Laceration with foreign body of right forearm                                | Diagnosis     | ICD-10-CM |
| S51.821A | Laceration with foreign body of right forearm, initial encounter             | Diagnosis     | ICD-10-CM |
| S51.821D | Laceration with foreign body of right forearm, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S51.821S | Laceration with foreign body of right forearm, sequela                       | Diagnosis     | ICD-10-CM |
| S51.822  | Laceration with foreign body of left forearm                                 | Diagnosis     | ICD-10-CM |
| S51.822A | Laceration with foreign body of left forearm, initial encounter              | Diagnosis     | ICD-10-CM |
| S51.822D | Laceration with foreign body of left forearm, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S51.822S | Laceration with foreign body of left forearm, sequela                        | Diagnosis     | ICD-10-CM |
| S51.829  | Laceration with foreign body of unspecified forearm                          | Diagnosis     | ICD-10-CM |
| S51.829A | Laceration with foreign body of unspecified forearm, initial encounter       | Diagnosis     | ICD-10-CM |
| S51.829D | Laceration with foreign body of unspecified forearm, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S51.829S | Laceration with foreign body of unspecified forearm, sequela                 | Diagnosis     | ICD-10-CM |
| S51.83   | Puncture wound without foreign body of forearm                               | Diagnosis     | ICD-10-CM |
| S51.831  | Puncture wound without foreign body of right forearm                         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S51.831A | Puncture wound without foreign body of right forearm, initial encounter   | Diagnosis     | ICD-10-CM |
| S51.831D | Puncture wound without foreign body of right forearm, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S51.831S | Puncture wound without foreign body of right forearm, sequela   | Diagnosis     | ICD-10-CM |
| S51.832  | Puncture wound without foreign body of left forearm   | Diagnosis     | ICD-10-CM |
| S51.832A | Puncture wound without foreign body of left forearm, initial encounter  | Diagnosis     | ICD-10-CM |
| S51.832D | Puncture wound without foreign body of left forearm, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S51.832S | Puncture wound without foreign body of left forearm, sequela  | Diagnosis     | ICD-10-CM |
| S51.839  | Puncture wound without foreign body of unspecified forearm  | Diagnosis     | ICD-10-CM |
| S51.839A | Puncture wound without foreign body of unspecified forearm, initial encounter   | Diagnosis     | ICD-10-CM |
| S51.839D | Puncture wound without foreign body of unspecified forearm, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S51.839S | Puncture wound without foreign body of unspecified forearm, sequela   | Diagnosis     | ICD-10-CM |
| S51.84   | Puncture wound with foreign body of forearm   | Diagnosis     | ICD-10-CM |
| S51.841  | Puncture wound with foreign body of right forearm   | Diagnosis     | ICD-10-CM |
| S51.841A | Puncture wound with foreign body of right forearm, initial encounter  | Diagnosis     | ICD-10-CM |
| S51.841D | Puncture wound with foreign body of right forearm, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S51.841S | Puncture wound with foreign body of right forearm, sequela  | Diagnosis     | ICD-10-CM |
| S51.842  | Puncture wound with foreign body of left forearm  | Diagnosis     | ICD-10-CM |
| S51.842A | Puncture wound with foreign body of left forearm, initial encounter   | Diagnosis     | ICD-10-CM |
| S51.842D | Puncture wound with foreign body of left forearm, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S51.842S | Puncture wound with foreign body of left forearm, sequela   | Diagnosis     | ICD-10-CM |
| S51.849  | Puncture wound with foreign body of unspecified forearm   | Diagnosis     | ICD-10-CM |
| S51.849A | Puncture wound with foreign body of unspecified forearm, initial encounter  | Diagnosis     | ICD-10-CM |
| S51.849D | Puncture wound with foreign body of unspecified forearm, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S51.849S | Puncture wound with foreign body of unspecified forearm, sequela  | Diagnosis     | ICD-10-CM |
| S51.85   | Open bite of forearm  | Diagnosis     | ICD-10-CM |
| S51.851  | Open bite of right forearm  | Diagnosis     | ICD-10-CM |
| S51.851A | Open bite of right forearm, initial encounter   | Diagnosis     | ICD-10-CM |
| S51.851D | Open bite of right forearm, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S51.851S | Open bite of right forearm, sequela   | Diagnosis     | ICD-10-CM |
| S51.852  | Open bite of left forearm   | Diagnosis     | ICD-10-CM |
| S51.852A | Open bite of left forearm, initial encounter  | Diagnosis     | ICD-10-CM |
| S51.852D | Open bite of left forearm, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S51.852S | Open bite of left forearm, sequela  | Diagnosis     | ICD-10-CM |
| S51.859  | Open bite of unspecified forearm  | Diagnosis     | ICD-10-CM |
| S51.859A | Open bite of unspecified forearm, initial encounter   | Diagnosis     | ICD-10-CM |
| S51.859D | Open bite of unspecified forearm, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S51.859S | Open bite of unspecified forearm, sequela   | Diagnosis     | ICD-10-CM |
| S52      | Fracture of forearm   | Diagnosis     | ICD-10-CM |
| S52.0    | Fracture of upper end of ulna   | Diagnosis     | ICD-10-CM |
| S52.00   | Unspecified fracture of upper end of ulna   | Diagnosis     | ICD-10-CM |
| S52.001  | Unspecified fracture of upper end of right ulna   | Diagnosis     | ICD-10-CM |
| S52.001A | Unspecified fracture of upper end of right ulna, initial encounter for closed fracture                                    | Diagnosis     | ICD-10-CM |
| S52.001B | Unspecified fracture of upper end of right ulna, initial encounter for open fracture type I or II                         | Diagnosis     | ICD-10-CM |
| S52.001C | Unspecified fracture of upper end of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC             | Diagnosis     | ICD-10-CM |
| S52.001D | Unspecified fracture of upper end of right ulna, subsequent encounter for closed fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S52.001E | Unspecified fracture of upper end of right ulna, subsequent encounter for open fracture type I or II with routine healing | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.001F | Unspecified fracture of upper end of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.001G | Unspecified fracture of upper end of right ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.001H | Unspecified fracture of upper end of right ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.001J | Unspecified fracture of upper end of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.001K | Unspecified fracture of upper end of right ulna, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.001M | Unspecified fracture of upper end of right ulna, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.001N | Unspecified fracture of upper end of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.001P | Unspecified fracture of upper end of right ulna, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.001Q | Unspecified fracture of upper end of right ulna, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.001R | Unspecified fracture of upper end of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.001S | Unspecified fracture of upper end of right ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.002  | Unspecified fracture of upper end of left ulna  | Diagnosis     | ICD-10-CM |
| S52.002A | Unspecified fracture of upper end of left ulna, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.002B | Unspecified fracture of upper end of left ulna, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S52.002C | Unspecified fracture of upper end of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S52.002D | Unspecified fracture of upper end of left ulna, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S52.002E | Unspecified fracture of upper end of left ulna, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S52.002F | Unspecified fracture of upper end of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S52.002G | Unspecified fracture of upper end of left ulna, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S52.002H | Unspecified fracture of upper end of left ulna, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S52.002J | Unspecified fracture of upper end of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S52.002K | Unspecified fracture of upper end of left ulna, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S52.002M | Unspecified fracture of upper end of left ulna, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S52.002N | Unspecified fracture of upper end of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S52.002P | Unspecified fracture of upper end of left ulna, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S52.002Q | Unspecified fracture of upper end of left ulna, subsequent encounter for open fracture type I or II with malunion                     | Diagnosis     | ICD-10-CM |
| S52.002R | Unspecified fracture of upper end of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion         | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.002S | Unspecified fracture of upper end of left ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.009  | Unspecified fracture of upper end of unspecified ulna   | Diagnosis     | ICD-10-CM |
| S52.009A | Unspecified fracture of upper end of unspecified ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.009B | Unspecified fracture of upper end of unspecified ulna, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.009C | Unspecified fracture of upper end of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.009D | Unspecified fracture of upper end of unspecified ulna, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.009E | Unspecified fracture of upper end of unspecified ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.009F | Unspecified fracture of upper end of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.009G | Unspecified fracture of upper end of unspecified ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.009H | Unspecified fracture of upper end of unspecified ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.009J | Unspecified fracture of upper end of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.009K | Unspecified fracture of upper end of unspecified ulna, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.009M | Unspecified fracture of upper end of unspecified ulna, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.009N | Unspecified fracture of upper end of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.009P | Unspecified fracture of upper end of unspecified ulna, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.009Q | Unspecified fracture of upper end of unspecified ulna, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.009R | Unspecified fracture of upper end of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.009S | Unspecified fracture of upper end of unspecified ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.01   | Torus fracture of upper end of ulna   | Diagnosis     | ICD-10-CM |
| S52.011  | Torus fracture of upper end of right ulna   | Diagnosis     | ICD-10-CM |
| S52.011A | Torus fracture of upper end of right ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.011D | Torus fracture of upper end of right ulna, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S52.011G | Torus fracture of upper end of right ulna, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S52.011K | Torus fracture of upper end of right ulna, subsequent encounter for fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S52.011P | Torus fracture of upper end of right ulna, subsequent encounter for fracture with malunion  | Diagnosis     | ICD-10-CM |
| S52.011S | Torus fracture of upper end of right ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.012  | Torus fracture of upper end of left ulna  | Diagnosis     | ICD-10-CM |
| S52.012A | Torus fracture of upper end of left ulna, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.012D | Torus fracture of upper end of left ulna, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S52.012G | Torus fracture of upper end of left ulna, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S52.012K | Torus fracture of upper end of left ulna, subsequent encounter for fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S52.012P | Torus fracture of upper end of left ulna, subsequent encounter for fracture with malunion   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.012S | Torus fracture of upper end of left ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.019  | Torus fracture of upper end of unspecified ulna  | Diagnosis     | ICD-10-CM |
| S52.019A | Torus fracture of upper end of unspecified ulna, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.019D | Torus fracture of upper end of unspecified ulna, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S52.019G | Torus fracture of upper end of unspecified ulna, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S52.019K | Torus fracture of upper end of unspecified ulna, subsequent encounter for fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S52.019P | Torus fracture of upper end of unspecified ulna, subsequent encounter for fracture with malunion   | Diagnosis     | ICD-10-CM |
| S52.019S | Torus fracture of upper end of unspecified ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.02   | Fracture of olecranon process without intraarticular extension of ulna   | Diagnosis     | ICD-10-CM |
| S52.021  | Displaced fracture of olecranon process without intraarticular extension of right ulna   | Diagnosis     | ICD-10-CM |
| S52.021A | Displaced fracture of olecranon process without intraarticular extension of right ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.021B | Displaced fracture of olecranon process without intraarticular extension of right ulna, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.021C | Displaced fracture of olecranon process without intraarticular extension of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.021D | Displaced fracture of olecranon process without intraarticular extension of right ulna, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.021E | Displaced fracture of olecranon process without intraarticular extension of right ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.021F | Displaced fracture of olecranon process without intraarticular extension of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.021G | Displaced fracture of olecranon process without intraarticular extension of right ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.021H | Displaced fracture of olecranon process without intraarticular extension of right ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.021J | Displaced fracture of olecranon process without intraarticular extension of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.021K | Displaced fracture of olecranon process without intraarticular extension of right ulna, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.021M | Displaced fracture of olecranon process without intraarticular extension of right ulna, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.021N | Displaced fracture of olecranon process without intraarticular extension of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.021P | Displaced fracture of olecranon process without intraarticular extension of right ulna, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.021Q | Displaced fracture of olecranon process without intraarticular extension of right ulna, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.021R | Displaced fracture of olecranon process without intraarticular extension of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.021S | Displaced fracture of olecranon process without intraarticular extension of right ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.022  | Displaced fracture of olecranon process without intraarticular extension of left ulna  | Diagnosis     | ICD-10-CM |
| S52.022A | Displaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.022B | Displaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.022C | Displaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S52.022D | Displaced fracture of olecranon process without intraarticular extension of left ulna, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S52.022E | Displaced fracture of olecranon process without intraarticular extension of left ulna, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S52.022F | Displaced fracture of olecranon process without intraarticular extension of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.022G | Displaced fracture of olecranon process without intraarticular extension of left ulna, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.022H | Displaced fracture of olecranon process without intraarticular extension of left ulna, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.022J | Displaced fracture of olecranon process without intraarticular extension of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.022K | Displaced fracture of olecranon process without intraarticular extension of left ulna, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.022M | Displaced fracture of olecranon process without intraarticular extension of left ulna, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.022N | Displaced fracture of olecranon process without intraarticular extension of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.022P | Displaced fracture of olecranon process without intraarticular extension of left ulna, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.022Q | Displaced fracture of olecranon process without intraarticular extension of left ulna, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.022R | Displaced fracture of olecranon process without intraarticular extension of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.022S | Displaced fracture of olecranon process without intraarticular extension of left ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.023  | Displaced fracture of olecranon process without intraarticular extension of unspecified ulna   | Diagnosis     | ICD-10-CM |
| S52.023A | Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.023B | Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.023C | Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.023D | Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.023E | Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.023F | Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.023G | Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.023H | Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.023J | Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.023K | Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, subsequent encounter for closed fracture with nonunion                            | Diagnosis     | ICD-10-CM |
| S52.023M | Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, subsequent encounter for open fracture type I or II with nonunion                 | Diagnosis     | ICD-10-CM |
| S52.023N | Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion     | Diagnosis     | ICD-10-CM |
| S52.023P | Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, subsequent encounter for closed fracture with malunion                            | Diagnosis     | ICD-10-CM |
| S52.023Q | Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, subsequent encounter for open fracture type I or II with malunion                 | Diagnosis     | ICD-10-CM |
| S52.023R | Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion     | Diagnosis     | ICD-10-CM |
| S52.023S | Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.024  | Nondisplaced fracture of olecranon process without intraarticular extension of right ulna   | Diagnosis     | ICD-10-CM |
| S52.024A | Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.024B | Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.024C | Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.024D | Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.024E | Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.024F | Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.024G | Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.024H | Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.024J | Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.024K | Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.024M | Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.024N | Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.024P | Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.024Q | Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.024R | Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.024S | Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.025  | Nondisplaced fracture of olecranon process without intraarticular extension of left ulna  | Diagnosis     | ICD-10-CM |
| S52.025A | Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.025B | Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.025C | Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S52.025D | Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S52.025E | Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S52.025F | Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.025G | Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.025H | Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.025J | Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.025K | Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.025M | Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.025N | Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.025P | Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.025Q | Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.025R | Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.025S | Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.026  | Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna   | Diagnosis     | ICD-10-CM |
| S52.026A | Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.026B | Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.026C | Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.026D | Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.026E | Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.026F | Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.026G | Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.026H | Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.026J | Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.026K | Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, subsequent encounter for closed fracture with nonunion                        | Diagnosis     | ICD-10-CM |
| S52.026M | Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, subsequent encounter for open fracture type I or II with nonunion             | Diagnosis     | ICD-10-CM |
| S52.026N | Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion | Diagnosis     | ICD-10-CM |
| S52.026P | Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, subsequent encounter for closed fracture with malunion                        | Diagnosis     | ICD-10-CM |
| S52.026Q | Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, subsequent encounter for open fracture type I or II with malunion             | Diagnosis     | ICD-10-CM |
| S52.026R | Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion | Diagnosis     | ICD-10-CM |
| S52.026S | Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.03   | Fracture of olecranon process with intraarticular extension of ulna  | Diagnosis     | ICD-10-CM |
| S52.031  | Displaced fracture of olecranon process with intraarticular extension of right ulna  | Diagnosis     | ICD-10-CM |
| S52.031A | Displaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.031B | Displaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.031C | Displaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                              | Diagnosis     | ICD-10-CM |
| S52.031D | Displaced fracture of olecranon process with intraarticular extension of right ulna, subsequent encounter for closed fracture with routine healing                             | Diagnosis     | ICD-10-CM |
| S52.031E | Displaced fracture of olecranon process with intraarticular extension of right ulna, subsequent encounter for open fracture type I or II with routine healing                  | Diagnosis     | ICD-10-CM |
| S52.031F | Displaced fracture of olecranon process with intraarticular extension of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing      | Diagnosis     | ICD-10-CM |
| S52.031G | Displaced fracture of olecranon process with intraarticular extension of right ulna, subsequent encounter for closed fracture with delayed healing                             | Diagnosis     | ICD-10-CM |
| S52.031H | Displaced fracture of olecranon process with intraarticular extension of right ulna, subsequent encounter for open fracture type I or II with delayed healing                  | Diagnosis     | ICD-10-CM |
| S52.031J | Displaced fracture of olecranon process with intraarticular extension of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing      | Diagnosis     | ICD-10-CM |
| S52.031K | Displaced fracture of olecranon process with intraarticular extension of right ulna, subsequent encounter for closed fracture with nonunion                                    | Diagnosis     | ICD-10-CM |
| S52.031M | Displaced fracture of olecranon process with intraarticular extension of right ulna, subsequent encounter for open fracture type I or II with nonunion                         | Diagnosis     | ICD-10-CM |
| S52.031N | Displaced fracture of olecranon process with intraarticular extension of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion             | Diagnosis     | ICD-10-CM |
| S52.031P | Displaced fracture of olecranon process with intraarticular extension of right ulna, subsequent encounter for closed fracture with malunion                                    | Diagnosis     | ICD-10-CM |
| S52.031Q | Displaced fracture of olecranon process with intraarticular extension of right ulna, subsequent encounter for open fracture type I or II with malunion                         | Diagnosis     | ICD-10-CM |
| S52.031R | Displaced fracture of olecranon process with intraarticular extension of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion             | Diagnosis     | ICD-10-CM |
| S52.031S | Displaced fracture of olecranon process with intraarticular extension of right ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.032  | Displaced fracture of olecranon process with intraarticular extension of left ulna   | Diagnosis     | ICD-10-CM |
| S52.032A | Displaced fracture of olecranon process with intraarticular extension of left ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.032B | Displaced fracture of olecranon process with intraarticular extension of left ulna, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.032C | Displaced fracture of olecranon process with intraarticular extension of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S52.032D | Displaced fracture of olecranon process with intraarticular extension of left ulna, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S52.032E | Displaced fracture of olecranon process with intraarticular extension of left ulna, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S52.032F | Displaced fracture of olecranon process with intraarticular extension of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.032G | Displaced fracture of olecranon process with intraarticular extension of left ulna, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.032H | Displaced fracture of olecranon process with intraarticular extension of left ulna, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.032J | Displaced fracture of olecranon process with intraarticular extension of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.032K | Displaced fracture of olecranon process with intraarticular extension of left ulna, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.032M | Displaced fracture of olecranon process with intraarticular extension of left ulna, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.032N | Displaced fracture of olecranon process with intraarticular extension of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.032P | Displaced fracture of olecranon process with intraarticular extension of left ulna, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.032Q | Displaced fracture of olecranon process with intraarticular extension of left ulna, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.032R | Displaced fracture of olecranon process with intraarticular extension of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.032S | Displaced fracture of olecranon process with intraarticular extension of left ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.033  | Displaced fracture of olecranon process with intraarticular extension of unspecified ulna   | Diagnosis     | ICD-10-CM |
| S52.033A | Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.033B | Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.033C | Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.033D | Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.033E | Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.033F | Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.033G | Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.033H | Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.033J | Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.033K | Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.033M | Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, subsequent encounter for open fracture type I or II with nonunion               | Diagnosis     | ICD-10-CM |
| S52.033N | Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion     | Diagnosis     | ICD-10-CM |
| S52.033P | Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, subsequent encounter for closed fracture with malunion                          | Diagnosis     | ICD-10-CM |
| S52.033Q | Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, subsequent encounter for open fracture type I or II with malunion               | Diagnosis     | ICD-10-CM |
| S52.033R | Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion     | Diagnosis     | ICD-10-CM |
| S52.033S | Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.034  | Nondisplaced fracture of olecranon process with intraarticular extension of right ulna   | Diagnosis     | ICD-10-CM |
| S52.034A | Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.034B | Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for open fracture type I or II                                   | Diagnosis     | ICD-10-CM |
| S52.034C | Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for open fracture type IIIA, IIB, or IIC                         | Diagnosis     | ICD-10-CM |
| S52.034D | Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S52.034E | Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S52.034F | Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.034G | Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S52.034H | Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S52.034J | Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.034K | Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S52.034M | Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S52.034N | Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.034P | Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S52.034Q | Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S52.034R | Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.034S | Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.035  | Nondisplaced fracture of olecranon process with intraarticular extension of left ulna  | Diagnosis     | ICD-10-CM |
| S52.035A | Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.035B | Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, initial encounter for open fracture type I or II                                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.035C | Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S52.035D | Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S52.035E | Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S52.035F | Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.035G | Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.035H | Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.035J | Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.035K | Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.035M | Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.035N | Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.035P | Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.035Q | Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.035R | Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.035S | Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.036  | Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna   | Diagnosis     | ICD-10-CM |
| S52.036A | Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.036B | Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.036C | Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.036D | Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.036E | Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.036F | Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.036G | Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.036H | Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.036J | Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.036K | Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.036M | Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, subsequent encounter for open fracture type I or II with nonunion           | Diagnosis     | ICD-10-CM |
| S52.036N | Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion | Diagnosis     | ICD-10-CM |
| S52.036P | Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, subsequent encounter for closed fracture with malunion                      | Diagnosis     | ICD-10-CM |
| S52.036Q | Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, subsequent encounter for open fracture type I or II with malunion           | Diagnosis     | ICD-10-CM |
| S52.036R | Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion | Diagnosis     | ICD-10-CM |
| S52.036S | Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.04   | Fracture of coronoid process of ulna  | Diagnosis     | ICD-10-CM |
| S52.041  | Displaced fracture of coronoid process of right ulna  | Diagnosis     | ICD-10-CM |
| S52.041A | Displaced fracture of coronoid process of right ulna, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.041B | Displaced fracture of coronoid process of right ulna, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.041C | Displaced fracture of coronoid process of right ulna, initial encounter for open fracture type IIIA, IIB, or IIC  | Diagnosis     | ICD-10-CM |
| S52.041D | Displaced fracture of coronoid process of right ulna, subsequent encounter for closed fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S52.041E | Displaced fracture of coronoid process of right ulna, subsequent encounter for open fracture type I or II with routine healing  | Diagnosis     | ICD-10-CM |
| S52.041F | Displaced fracture of coronoid process of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing                                  | Diagnosis     | ICD-10-CM |
| S52.041G | Displaced fracture of coronoid process of right ulna, subsequent encounter for closed fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S52.041H | Displaced fracture of coronoid process of right ulna, subsequent encounter for open fracture type I or II with delayed healing  | Diagnosis     | ICD-10-CM |
| S52.041J | Displaced fracture of coronoid process of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing                                  | Diagnosis     | ICD-10-CM |
| S52.041K | Displaced fracture of coronoid process of right ulna, subsequent encounter for closed fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S52.041M | Displaced fracture of coronoid process of right ulna, subsequent encounter for open fracture type I or II with nonunion   | Diagnosis     | ICD-10-CM |
| S52.041N | Displaced fracture of coronoid process of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion   | Diagnosis     | ICD-10-CM |
| S52.041P | Displaced fracture of coronoid process of right ulna, subsequent encounter for closed fracture with malunion  | Diagnosis     | ICD-10-CM |
| S52.041Q | Displaced fracture of coronoid process of right ulna, subsequent encounter for open fracture type I or II with malunion   | Diagnosis     | ICD-10-CM |
| S52.041R | Displaced fracture of coronoid process of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion   | Diagnosis     | ICD-10-CM |
| S52.041S | Displaced fracture of coronoid process of right ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.042  | Displaced fracture of coronoid process of left ulna   | Diagnosis     | ICD-10-CM |
| S52.042A | Displaced fracture of coronoid process of left ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.042B | Displaced fracture of coronoid process of left ulna, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S52.042C | Displaced fracture of coronoid process of left ulna, initial encounter for open fracture type IIIA, IIB, or IIC   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.042D | Displaced fracture of coronoid process of left ulna, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S52.042E | Displaced fracture of coronoid process of left ulna, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S52.042F | Displaced fracture of coronoid process of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.042G | Displaced fracture of coronoid process of left ulna, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.042H | Displaced fracture of coronoid process of left ulna, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.042J | Displaced fracture of coronoid process of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.042K | Displaced fracture of coronoid process of left ulna, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.042M | Displaced fracture of coronoid process of left ulna, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.042N | Displaced fracture of coronoid process of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.042P | Displaced fracture of coronoid process of left ulna, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.042Q | Displaced fracture of coronoid process of left ulna, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.042R | Displaced fracture of coronoid process of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.042S | Displaced fracture of coronoid process of left ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.043  | Displaced fracture of coronoid process of unspecified ulna   | Diagnosis     | ICD-10-CM |
| S52.043A | Displaced fracture of coronoid process of unspecified ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.043B | Displaced fracture of coronoid process of unspecified ulna, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.043C | Displaced fracture of coronoid process of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.043D | Displaced fracture of coronoid process of unspecified ulna, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.043E | Displaced fracture of coronoid process of unspecified ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.043F | Displaced fracture of coronoid process of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.043G | Displaced fracture of coronoid process of unspecified ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.043H | Displaced fracture of coronoid process of unspecified ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.043J | Displaced fracture of coronoid process of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.043K | Displaced fracture of coronoid process of unspecified ulna, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.043M | Displaced fracture of coronoid process of unspecified ulna, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.043N | Displaced fracture of coronoid process of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.043P | Displaced fracture of coronoid process of unspecified ulna, subsequent encounter for closed fracture with malunion                            | Diagnosis     | ICD-10-CM |
| S52.043Q | Displaced fracture of coronoid process of unspecified ulna, subsequent encounter for open fracture type I or II with malunion                 | Diagnosis     | ICD-10-CM |
| S52.043R | Displaced fracture of coronoid process of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion     | Diagnosis     | ICD-10-CM |
| S52.043S | Displaced fracture of coronoid process of unspecified ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.044  | Nondisplaced fracture of coronoid process of right ulna   | Diagnosis     | ICD-10-CM |
| S52.044A | Nondisplaced fracture of coronoid process of right ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.044B | Nondisplaced fracture of coronoid process of right ulna, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.044C | Nondisplaced fracture of coronoid process of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.044D | Nondisplaced fracture of coronoid process of right ulna, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.044E | Nondisplaced fracture of coronoid process of right ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.044F | Nondisplaced fracture of coronoid process of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.044G | Nondisplaced fracture of coronoid process of right ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.044H | Nondisplaced fracture of coronoid process of right ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.044J | Nondisplaced fracture of coronoid process of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.044K | Nondisplaced fracture of coronoid process of right ulna, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.044M | Nondisplaced fracture of coronoid process of right ulna, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.044N | Nondisplaced fracture of coronoid process of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.044P | Nondisplaced fracture of coronoid process of right ulna, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.044Q | Nondisplaced fracture of coronoid process of right ulna, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.044R | Nondisplaced fracture of coronoid process of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.044S | Nondisplaced fracture of coronoid process of right ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.045  | Nondisplaced fracture of coronoid process of left ulna  | Diagnosis     | ICD-10-CM |
| S52.045A | Nondisplaced fracture of coronoid process of left ulna, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.045B | Nondisplaced fracture of coronoid process of left ulna, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S52.045C | Nondisplaced fracture of coronoid process of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S52.045D | Nondisplaced fracture of coronoid process of left ulna, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S52.045E | Nondisplaced fracture of coronoid process of left ulna, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.045F | Nondisplaced fracture of coronoid process of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.045G | Nondisplaced fracture of coronoid process of left ulna, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.045H | Nondisplaced fracture of coronoid process of left ulna, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.045J | Nondisplaced fracture of coronoid process of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.045K | Nondisplaced fracture of coronoid process of left ulna, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.045M | Nondisplaced fracture of coronoid process of left ulna, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.045N | Nondisplaced fracture of coronoid process of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.045P | Nondisplaced fracture of coronoid process of left ulna, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.045Q | Nondisplaced fracture of coronoid process of left ulna, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.045R | Nondisplaced fracture of coronoid process of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.045S | Nondisplaced fracture of coronoid process of left ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.046  | Nondisplaced fracture of coronoid process of unspecified ulna   | Diagnosis     | ICD-10-CM |
| S52.046A | Nondisplaced fracture of coronoid process of unspecified ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.046B | Nondisplaced fracture of coronoid process of unspecified ulna, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.046C | Nondisplaced fracture of coronoid process of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.046D | Nondisplaced fracture of coronoid process of unspecified ulna, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.046E | Nondisplaced fracture of coronoid process of unspecified ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.046F | Nondisplaced fracture of coronoid process of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.046G | Nondisplaced fracture of coronoid process of unspecified ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.046H | Nondisplaced fracture of coronoid process of unspecified ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.046J | Nondisplaced fracture of coronoid process of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.046K | Nondisplaced fracture of coronoid process of unspecified ulna, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.046M | Nondisplaced fracture of coronoid process of unspecified ulna, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.046N | Nondisplaced fracture of coronoid process of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.046P | Nondisplaced fracture of coronoid process of unspecified ulna, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.046Q | Nondisplaced fracture of coronoid process of unspecified ulna, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.046R | Nondisplaced fracture of coronoid process of unspecified ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion | Diagnosis     | ICD-10-CM |
| S52.046S | Nondisplaced fracture of coronoid process of unspecified ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.09   | Other fracture of upper end of ulna  | Diagnosis     | ICD-10-CM |
| S52.091  | Other fracture of upper end of right ulna  | Diagnosis     | ICD-10-CM |
| S52.091A | Other fracture of upper end of right ulna, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.091B | Other fracture of upper end of right ulna, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.091C | Other fracture of upper end of right ulna, initial encounter for open fracture type IIIA, IIB, or IIC                                      | Diagnosis     | ICD-10-CM |
| S52.091D | Other fracture of upper end of right ulna, subsequent encounter for closed fracture with routine healing                                   | Diagnosis     | ICD-10-CM |
| S52.091E | Other fracture of upper end of right ulna, subsequent encounter for open fracture type I or II with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.091F | Other fracture of upper end of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing              | Diagnosis     | ICD-10-CM |
| S52.091G | Other fracture of upper end of right ulna, subsequent encounter for closed fracture with delayed healing                                   | Diagnosis     | ICD-10-CM |
| S52.091H | Other fracture of upper end of right ulna, subsequent encounter for open fracture type I or II with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.091J | Other fracture of upper end of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing              | Diagnosis     | ICD-10-CM |
| S52.091K | Other fracture of upper end of right ulna, subsequent encounter for closed fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S52.091M | Other fracture of upper end of right ulna, subsequent encounter for open fracture type I or II with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.091N | Other fracture of upper end of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion                     | Diagnosis     | ICD-10-CM |
| S52.091P | Other fracture of upper end of right ulna, subsequent encounter for closed fracture with malunion  | Diagnosis     | ICD-10-CM |
| S52.091Q | Other fracture of upper end of right ulna, subsequent encounter for open fracture type I or II with malunion                               | Diagnosis     | ICD-10-CM |
| S52.091R | Other fracture of upper end of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion                     | Diagnosis     | ICD-10-CM |
| S52.091S | Other fracture of upper end of right ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.092  | Other fracture of upper end of left ulna   | Diagnosis     | ICD-10-CM |
| S52.092A | Other fracture of upper end of left ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.092B | Other fracture of upper end of left ulna, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S52.092C | Other fracture of upper end of left ulna, initial encounter for open fracture type IIIA, IIB, or IIC                                       | Diagnosis     | ICD-10-CM |
| S52.092D | Other fracture of upper end of left ulna, subsequent encounter for closed fracture with routine healing                                    | Diagnosis     | ICD-10-CM |
| S52.092E | Other fracture of upper end of left ulna, subsequent encounter for open fracture type I or II with routine healing                         | Diagnosis     | ICD-10-CM |
| S52.092F | Other fracture of upper end of left ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing               | Diagnosis     | ICD-10-CM |
| S52.092G | Other fracture of upper end of left ulna, subsequent encounter for closed fracture with delayed healing                                    | Diagnosis     | ICD-10-CM |
| S52.092H | Other fracture of upper end of left ulna, subsequent encounter for open fracture type I or II with delayed healing                         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.092J | Other fracture of upper end of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.092K | Other fracture of upper end of left ulna, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.092M | Other fracture of upper end of left ulna, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.092N | Other fracture of upper end of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.092P | Other fracture of upper end of left ulna, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.092Q | Other fracture of upper end of left ulna, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.092R | Other fracture of upper end of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.092S | Other fracture of upper end of left ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.099  | Other fracture of upper end of unspecified ulna   | Diagnosis     | ICD-10-CM |
| S52.099A | Other fracture of upper end of unspecified ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.099B | Other fracture of upper end of unspecified ulna, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.099C | Other fracture of upper end of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.099D | Other fracture of upper end of unspecified ulna, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.099E | Other fracture of upper end of unspecified ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.099F | Other fracture of upper end of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.099G | Other fracture of upper end of unspecified ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.099H | Other fracture of upper end of unspecified ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.099J | Other fracture of upper end of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.099K | Other fracture of upper end of unspecified ulna, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.099M | Other fracture of upper end of unspecified ulna, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.099N | Other fracture of upper end of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.099P | Other fracture of upper end of unspecified ulna, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.099Q | Other fracture of upper end of unspecified ulna, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.099R | Other fracture of upper end of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.099S | Other fracture of upper end of unspecified ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.1    | Fracture of upper end of radius   | Diagnosis     | ICD-10-CM |
| S52.10   | Unspecified fracture of upper end of radius   | Diagnosis     | ICD-10-CM |
| S52.101  | Unspecified fracture of upper end of right radius   | Diagnosis     | ICD-10-CM |
| S52.101A | Unspecified fracture of upper end of right radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.101B | Unspecified fracture of upper end of right radius, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.101C | Unspecified fracture of upper end of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.101D | Unspecified fracture of upper end of right radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.101E | Unspecified fracture of upper end of right radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.101F | Unspecified fracture of upper end of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.101G | Unspecified fracture of upper end of right radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.101H | Unspecified fracture of upper end of right radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.101J | Unspecified fracture of upper end of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.101K | Unspecified fracture of upper end of right radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.101M | Unspecified fracture of upper end of right radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.101N | Unspecified fracture of upper end of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.101P | Unspecified fracture of upper end of right radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.101Q | Unspecified fracture of upper end of right radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.101R | Unspecified fracture of upper end of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.101S | Unspecified fracture of upper end of right radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.102  | Unspecified fracture of upper end of left radius  | Diagnosis     | ICD-10-CM |
| S52.102A | Unspecified fracture of upper end of left radius, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.102B | Unspecified fracture of upper end of left radius, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S52.102C | Unspecified fracture of upper end of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S52.102D | Unspecified fracture of upper end of left radius, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S52.102E | Unspecified fracture of upper end of left radius, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S52.102F | Unspecified fracture of upper end of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S52.102G | Unspecified fracture of upper end of left radius, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S52.102H | Unspecified fracture of upper end of left radius, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S52.102J | Unspecified fracture of upper end of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S52.102K | Unspecified fracture of upper end of left radius, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.102M | Unspecified fracture of upper end of left radius, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.102N | Unspecified fracture of upper end of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.102P | Unspecified fracture of upper end of left radius, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.102Q | Unspecified fracture of upper end of left radius, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.102R | Unspecified fracture of upper end of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.102S | Unspecified fracture of upper end of left radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.109  | Unspecified fracture of upper end of unspecified radius   | Diagnosis     | ICD-10-CM |
| S52.109A | Unspecified fracture of upper end of unspecified radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.109B | Unspecified fracture of upper end of unspecified radius, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.109C | Unspecified fracture of upper end of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.109D | Unspecified fracture of upper end of unspecified radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.109E | Unspecified fracture of upper end of unspecified radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.109F | Unspecified fracture of upper end of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.109G | Unspecified fracture of upper end of unspecified radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.109H | Unspecified fracture of upper end of unspecified radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.109J | Unspecified fracture of upper end of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.109K | Unspecified fracture of upper end of unspecified radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.109M | Unspecified fracture of upper end of unspecified radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.109N | Unspecified fracture of upper end of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.109P | Unspecified fracture of upper end of unspecified radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.109Q | Unspecified fracture of upper end of unspecified radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.109R | Unspecified fracture of upper end of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.109S | Unspecified fracture of upper end of unspecified radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.11   | Torus fracture of upper end of radius   | Diagnosis     | ICD-10-CM |
| S52.111  | Torus fracture of upper end of right radius   | Diagnosis     | ICD-10-CM |
| S52.111A | Torus fracture of upper end of right radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.111D | Torus fracture of upper end of right radius, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S52.111G | Torus fracture of upper end of right radius, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S52.111K | Torus fracture of upper end of right radius, subsequent encounter for fracture with nonunion  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.111P | Torus fracture of upper end of right radius, subsequent encounter for fracture with malunion                                   | Diagnosis     | ICD-10-CM |
| S52.111S | Torus fracture of upper end of right radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.112  | Torus fracture of upper end of left radius   | Diagnosis     | ICD-10-CM |
| S52.112A | Torus fracture of upper end of left radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.112D | Torus fracture of upper end of left radius, subsequent encounter for fracture with routine healing                             | Diagnosis     | ICD-10-CM |
| S52.112G | Torus fracture of upper end of left radius, subsequent encounter for fracture with delayed healing                             | Diagnosis     | ICD-10-CM |
| S52.112K | Torus fracture of upper end of left radius, subsequent encounter for fracture with nonunion                                    | Diagnosis     | ICD-10-CM |
| S52.112P | Torus fracture of upper end of left radius, subsequent encounter for fracture with malunion                                    | Diagnosis     | ICD-10-CM |
| S52.112S | Torus fracture of upper end of left radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.119  | Torus fracture of upper end of unspecified radius  | Diagnosis     | ICD-10-CM |
| S52.119A | Torus fracture of upper end of unspecified radius, initial encounter for closed fracture                                       | Diagnosis     | ICD-10-CM |
| S52.119D | Torus fracture of upper end of unspecified radius, subsequent encounter for fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S52.119G | Torus fracture of upper end of unspecified radius, subsequent encounter for fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S52.119K | Torus fracture of upper end of unspecified radius, subsequent encounter for fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S52.119P | Torus fracture of upper end of unspecified radius, subsequent encounter for fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S52.119S | Torus fracture of upper end of unspecified radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.12   | Fracture of head of radius   | Diagnosis     | ICD-10-CM |
| S52.121  | Displaced fracture of head of right radius   | Diagnosis     | ICD-10-CM |
| S52.121A | Displaced fracture of head of right radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.121B | Displaced fracture of head of right radius, initial encounter for open fracture type I or II                                   | Diagnosis     | ICD-10-CM |
| S52.121C | Displaced fracture of head of right radius, initial encounter for open fracture type IIIA, IIB, or IIC                         | Diagnosis     | ICD-10-CM |
| S52.121D | Displaced fracture of head of right radius, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S52.121E | Displaced fracture of head of right radius, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S52.121F | Displaced fracture of head of right radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.121G | Displaced fracture of head of right radius, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S52.121H | Displaced fracture of head of right radius, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S52.121J | Displaced fracture of head of right radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.121K | Displaced fracture of head of right radius, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S52.121M | Displaced fracture of head of right radius, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S52.121N | Displaced fracture of head of right radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.121P | Displaced fracture of head of right radius, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S52.121Q | Displaced fracture of head of right radius, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.121R | Displaced fracture of head of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion              | Diagnosis     | ICD-10-CM |
| S52.121S | Displaced fracture of head of right radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.122  | Displaced fracture of head of left radius  | Diagnosis     | ICD-10-CM |
| S52.122A | Displaced fracture of head of left radius, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.122B | Displaced fracture of head of left radius, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.122C | Displaced fracture of head of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S52.122D | Displaced fracture of head of left radius, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S52.122E | Displaced fracture of head of left radius, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S52.122F | Displaced fracture of head of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.122G | Displaced fracture of head of left radius, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.122H | Displaced fracture of head of left radius, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.122J | Displaced fracture of head of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.122K | Displaced fracture of head of left radius, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.122M | Displaced fracture of head of left radius, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.122N | Displaced fracture of head of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.122P | Displaced fracture of head of left radius, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.122Q | Displaced fracture of head of left radius, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.122R | Displaced fracture of head of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.122S | Displaced fracture of head of left radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.123  | Displaced fracture of head of unspecified radius   | Diagnosis     | ICD-10-CM |
| S52.123A | Displaced fracture of head of unspecified radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.123B | Displaced fracture of head of unspecified radius, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.123C | Displaced fracture of head of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.123D | Displaced fracture of head of unspecified radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.123E | Displaced fracture of head of unspecified radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.123F | Displaced fracture of head of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.123G | Displaced fracture of head of unspecified radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.123H | Displaced fracture of head of unspecified radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.123J | Displaced fracture of head of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.123K | Displaced fracture of head of unspecified radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.123M | Displaced fracture of head of unspecified radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.123N | Displaced fracture of head of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.123P | Displaced fracture of head of unspecified radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.123Q | Displaced fracture of head of unspecified radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.123R | Displaced fracture of head of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.123S | Displaced fracture of head of unspecified radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.124  | Nondisplaced fracture of head of right radius  | Diagnosis     | ICD-10-CM |
| S52.124A | Nondisplaced fracture of head of right radius, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.124B | Nondisplaced fracture of head of right radius, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.124C | Nondisplaced fracture of head of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S52.124D | Nondisplaced fracture of head of right radius, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S52.124E | Nondisplaced fracture of head of right radius, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S52.124F | Nondisplaced fracture of head of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S52.124G | Nondisplaced fracture of head of right radius, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S52.124H | Nondisplaced fracture of head of right radius, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S52.124J | Nondisplaced fracture of head of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S52.124K | Nondisplaced fracture of head of right radius, subsequent encounter for closed fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S52.124M | Nondisplaced fracture of head of right radius, subsequent encounter for open fracture type I or II with nonunion                       | Diagnosis     | ICD-10-CM |
| S52.124N | Nondisplaced fracture of head of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion           | Diagnosis     | ICD-10-CM |
| S52.124P | Nondisplaced fracture of head of right radius, subsequent encounter for closed fracture with malunion                                  | Diagnosis     | ICD-10-CM |
| S52.124Q | Nondisplaced fracture of head of right radius, subsequent encounter for open fracture type I or II with malunion                       | Diagnosis     | ICD-10-CM |
| S52.124R | Nondisplaced fracture of head of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion           | Diagnosis     | ICD-10-CM |
| S52.124S | Nondisplaced fracture of head of right radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.125  | Nondisplaced fracture of head of left radius   | Diagnosis     | ICD-10-CM |
| S52.125A | Nondisplaced fracture of head of left radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.125B | Nondisplaced fracture of head of left radius, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S52.125C | Nondisplaced fracture of head of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.125D | Nondisplaced fracture of head of left radius, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S52.125E | Nondisplaced fracture of head of left radius, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S52.125F | Nondisplaced fracture of head of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.125G | Nondisplaced fracture of head of left radius, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.125H | Nondisplaced fracture of head of left radius, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.125J | Nondisplaced fracture of head of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.125K | Nondisplaced fracture of head of left radius, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.125M | Nondisplaced fracture of head of left radius, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.125N | Nondisplaced fracture of head of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.125P | Nondisplaced fracture of head of left radius, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.125Q | Nondisplaced fracture of head of left radius, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.125R | Nondisplaced fracture of head of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.125S | Nondisplaced fracture of head of left radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.126  | Nondisplaced fracture of head of unspecified radius   | Diagnosis     | ICD-10-CM |
| S52.126A | Nondisplaced fracture of head of unspecified radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.126B | Nondisplaced fracture of head of unspecified radius, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.126C | Nondisplaced fracture of head of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.126D | Nondisplaced fracture of head of unspecified radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.126E | Nondisplaced fracture of head of unspecified radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.126F | Nondisplaced fracture of head of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.126G | Nondisplaced fracture of head of unspecified radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.126H | Nondisplaced fracture of head of unspecified radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.126J | Nondisplaced fracture of head of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.126K | Nondisplaced fracture of head of unspecified radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.126M | Nondisplaced fracture of head of unspecified radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.126N | Nondisplaced fracture of head of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.126P | Nondisplaced fracture of head of unspecified radius, subsequent encounter for closed fracture with malunion                        | Diagnosis     | ICD-10-CM |
| S52.126Q | Nondisplaced fracture of head of unspecified radius, subsequent encounter for open fracture type I or II with malunion             | Diagnosis     | ICD-10-CM |
| S52.126R | Nondisplaced fracture of head of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion | Diagnosis     | ICD-10-CM |
| S52.126S | Nondisplaced fracture of head of unspecified radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.13   | Fracture of neck of radius   | Diagnosis     | ICD-10-CM |
| S52.131  | Displaced fracture of neck of right radius   | Diagnosis     | ICD-10-CM |
| S52.131A | Displaced fracture of neck of right radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.131B | Displaced fracture of neck of right radius, initial encounter for open fracture type I or II                                       | Diagnosis     | ICD-10-CM |
| S52.131C | Displaced fracture of neck of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                           | Diagnosis     | ICD-10-CM |
| S52.131D | Displaced fracture of neck of right radius, subsequent encounter for closed fracture with routine healing                          | Diagnosis     | ICD-10-CM |
| S52.131E | Displaced fracture of neck of right radius, subsequent encounter for open fracture type I or II with routine healing               | Diagnosis     | ICD-10-CM |
| S52.131F | Displaced fracture of neck of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing   | Diagnosis     | ICD-10-CM |
| S52.131G | Displaced fracture of neck of right radius, subsequent encounter for closed fracture with delayed healing                          | Diagnosis     | ICD-10-CM |
| S52.131H | Displaced fracture of neck of right radius, subsequent encounter for open fracture type I or II with delayed healing               | Diagnosis     | ICD-10-CM |
| S52.131J | Displaced fracture of neck of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing   | Diagnosis     | ICD-10-CM |
| S52.131K | Displaced fracture of neck of right radius, subsequent encounter for closed fracture with nonunion                                 | Diagnosis     | ICD-10-CM |
| S52.131M | Displaced fracture of neck of right radius, subsequent encounter for open fracture type I or II with nonunion                      | Diagnosis     | ICD-10-CM |
| S52.131N | Displaced fracture of neck of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion          | Diagnosis     | ICD-10-CM |
| S52.131P | Displaced fracture of neck of right radius, subsequent encounter for closed fracture with malunion                                 | Diagnosis     | ICD-10-CM |
| S52.131Q | Displaced fracture of neck of right radius, subsequent encounter for open fracture type I or II with malunion                      | Diagnosis     | ICD-10-CM |
| S52.131R | Displaced fracture of neck of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion          | Diagnosis     | ICD-10-CM |
| S52.131S | Displaced fracture of neck of right radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.132  | Displaced fracture of neck of left radius  | Diagnosis     | ICD-10-CM |
| S52.132A | Displaced fracture of neck of left radius, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.132B | Displaced fracture of neck of left radius, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.132C | Displaced fracture of neck of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S52.132D | Displaced fracture of neck of left radius, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S52.132E | Displaced fracture of neck of left radius, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S52.132F | Displaced fracture of neck of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.132G | Displaced fracture of neck of left radius, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.132H | Displaced fracture of neck of left radius, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.132J | Displaced fracture of neck of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.132K | Displaced fracture of neck of left radius, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.132M | Displaced fracture of neck of left radius, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.132N | Displaced fracture of neck of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.132P | Displaced fracture of neck of left radius, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.132Q | Displaced fracture of neck of left radius, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.132R | Displaced fracture of neck of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.132S | Displaced fracture of neck of left radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.133  | Displaced fracture of neck of unspecified radius   | Diagnosis     | ICD-10-CM |
| S52.133A | Displaced fracture of neck of unspecified radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.133B | Displaced fracture of neck of unspecified radius, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.133C | Displaced fracture of neck of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.133D | Displaced fracture of neck of unspecified radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.133E | Displaced fracture of neck of unspecified radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.133F | Displaced fracture of neck of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.133G | Displaced fracture of neck of unspecified radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.133H | Displaced fracture of neck of unspecified radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.133J | Displaced fracture of neck of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.133K | Displaced fracture of neck of unspecified radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.133M | Displaced fracture of neck of unspecified radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.133N | Displaced fracture of neck of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.133P | Displaced fracture of neck of unspecified radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.133Q | Displaced fracture of neck of unspecified radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.133R | Displaced fracture of neck of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.133S | Displaced fracture of neck of unspecified radius, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.134  | Nondisplaced fracture of neck of right radius   | Diagnosis     | ICD-10-CM |
| S52.134A | Nondisplaced fracture of neck of right radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.134B | Nondisplaced fracture of neck of right radius, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.134C | Nondisplaced fracture of neck of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.134D | Nondisplaced fracture of neck of right radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.134E | Nondisplaced fracture of neck of right radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.134F | Nondisplaced fracture of neck of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.134G | Nondisplaced fracture of neck of right radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.134H | Nondisplaced fracture of neck of right radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.134J | Nondisplaced fracture of neck of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.134K | Nondisplaced fracture of neck of right radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.134M | Nondisplaced fracture of neck of right radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.134N | Nondisplaced fracture of neck of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.134P | Nondisplaced fracture of neck of right radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.134Q | Nondisplaced fracture of neck of right radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.134R | Nondisplaced fracture of neck of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.134S | Nondisplaced fracture of neck of right radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.135  | Nondisplaced fracture of neck of left radius  | Diagnosis     | ICD-10-CM |
| S52.135A | Nondisplaced fracture of neck of left radius, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.135B | Nondisplaced fracture of neck of left radius, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S52.135C | Nondisplaced fracture of neck of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S52.135D | Nondisplaced fracture of neck of left radius, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S52.135E | Nondisplaced fracture of neck of left radius, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S52.135F | Nondisplaced fracture of neck of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S52.135G | Nondisplaced fracture of neck of left radius, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S52.135H | Nondisplaced fracture of neck of left radius, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S52.135J | Nondisplaced fracture of neck of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S52.135K | Nondisplaced fracture of neck of left radius, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.135M | Nondisplaced fracture of neck of left radius, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.135N | Nondisplaced fracture of neck of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.135P | Nondisplaced fracture of neck of left radius, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.135Q | Nondisplaced fracture of neck of left radius, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.135R | Nondisplaced fracture of neck of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.135S | Nondisplaced fracture of neck of left radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.136  | Nondisplaced fracture of neck of unspecified radius   | Diagnosis     | ICD-10-CM |
| S52.136A | Nondisplaced fracture of neck of unspecified radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.136B | Nondisplaced fracture of neck of unspecified radius, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.136C | Nondisplaced fracture of neck of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.136D | Nondisplaced fracture of neck of unspecified radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.136E | Nondisplaced fracture of neck of unspecified radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.136F | Nondisplaced fracture of neck of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.136G | Nondisplaced fracture of neck of unspecified radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.136H | Nondisplaced fracture of neck of unspecified radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.136J | Nondisplaced fracture of neck of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.136K | Nondisplaced fracture of neck of unspecified radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.136M | Nondisplaced fracture of neck of unspecified radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.136N | Nondisplaced fracture of neck of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.136P | Nondisplaced fracture of neck of unspecified radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.136Q | Nondisplaced fracture of neck of unspecified radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.136R | Nondisplaced fracture of neck of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.136S | Nondisplaced fracture of neck of unspecified radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.18   | Other fracture of upper end of radius   | Diagnosis     | ICD-10-CM |
| S52.181  | Other fracture of upper end of right radius   | Diagnosis     | ICD-10-CM |
| S52.181A | Other fracture of upper end of right radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.181B | Other fracture of upper end of right radius, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S52.181C | Other fracture of upper end of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                                 | Diagnosis     | ICD-10-CM |
| S52.181D | Other fracture of upper end of right radius, subsequent encounter for closed fracture with routine healing                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.181E | Other fracture of upper end of right radius, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S52.181F | Other fracture of upper end of right radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.181G | Other fracture of upper end of right radius, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S52.181H | Other fracture of upper end of right radius, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S52.181J | Other fracture of upper end of right radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.181K | Other fracture of upper end of right radius, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S52.181M | Other fracture of upper end of right radius, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S52.181N | Other fracture of upper end of right radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.181P | Other fracture of upper end of right radius, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S52.181Q | Other fracture of upper end of right radius, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S52.181R | Other fracture of upper end of right radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.181S | Other fracture of upper end of right radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.182  | Other fracture of upper end of left radius  | Diagnosis     | ICD-10-CM |
| S52.182A | Other fracture of upper end of left radius, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.182B | Other fracture of upper end of left radius, initial encounter for open fracture type I or II                                    | Diagnosis     | ICD-10-CM |
| S52.182C | Other fracture of upper end of left radius, initial encounter for open fracture type IIIA, IIB, or IIC                          | Diagnosis     | ICD-10-CM |
| S52.182D | Other fracture of upper end of left radius, subsequent encounter for closed fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S52.182E | Other fracture of upper end of left radius, subsequent encounter for open fracture type I or II with routine healing            | Diagnosis     | ICD-10-CM |
| S52.182F | Other fracture of upper end of left radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing  | Diagnosis     | ICD-10-CM |
| S52.182G | Other fracture of upper end of left radius, subsequent encounter for closed fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S52.182H | Other fracture of upper end of left radius, subsequent encounter for open fracture type I or II with delayed healing            | Diagnosis     | ICD-10-CM |
| S52.182J | Other fracture of upper end of left radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S52.182K | Other fracture of upper end of left radius, subsequent encounter for closed fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S52.182M | Other fracture of upper end of left radius, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S52.182N | Other fracture of upper end of left radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion         | Diagnosis     | ICD-10-CM |
| S52.182P | Other fracture of upper end of left radius, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S52.182Q | Other fracture of upper end of left radius, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.182R | Other fracture of upper end of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.182S | Other fracture of upper end of left radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.189  | Other fracture of upper end of unspecified radius   | Diagnosis     | ICD-10-CM |
| S52.189A | Other fracture of upper end of unspecified radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.189B | Other fracture of upper end of unspecified radius, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.189C | Other fracture of upper end of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.189D | Other fracture of upper end of unspecified radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.189E | Other fracture of upper end of unspecified radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.189F | Other fracture of upper end of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.189G | Other fracture of upper end of unspecified radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.189H | Other fracture of upper end of unspecified radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.189J | Other fracture of upper end of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.189K | Other fracture of upper end of unspecified radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.189M | Other fracture of upper end of unspecified radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.189N | Other fracture of upper end of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.189P | Other fracture of upper end of unspecified radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.189Q | Other fracture of upper end of unspecified radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.189R | Other fracture of upper end of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.189S | Other fracture of upper end of unspecified radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.2    | Fracture of shaft of ulna   | Diagnosis     | ICD-10-CM |
| S52.20   | Unspecified fracture of shaft of ulna   | Diagnosis     | ICD-10-CM |
| S52.201  | Unspecified fracture of shaft of right ulna   | Diagnosis     | ICD-10-CM |
| S52.201A | Unspecified fracture of shaft of right ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.201B | Unspecified fracture of shaft of right ulna, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S52.201C | Unspecified fracture of shaft of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                               | Diagnosis     | ICD-10-CM |
| S52.201D | Unspecified fracture of shaft of right ulna, subsequent encounter for closed fracture with routine healing                              | Diagnosis     | ICD-10-CM |
| S52.201E | Unspecified fracture of shaft of right ulna, subsequent encounter for open fracture type I or II with routine healing                   | Diagnosis     | ICD-10-CM |
| S52.201F | Unspecified fracture of shaft of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing       | Diagnosis     | ICD-10-CM |
| S52.201G | Unspecified fracture of shaft of right ulna, subsequent encounter for closed fracture with delayed healing                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.201H | Unspecified fracture of shaft of right ulna, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S52.201J | Unspecified fracture of shaft of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.201K | Unspecified fracture of shaft of right ulna, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S52.201M | Unspecified fracture of shaft of right ulna, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S52.201N | Unspecified fracture of shaft of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.201P | Unspecified fracture of shaft of right ulna, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S52.201Q | Unspecified fracture of shaft of right ulna, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S52.201R | Unspecified fracture of shaft of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.201S | Unspecified fracture of shaft of right ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.202  | Unspecified fracture of shaft of left ulna  | Diagnosis     | ICD-10-CM |
| S52.202A | Unspecified fracture of shaft of left ulna, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.202B | Unspecified fracture of shaft of left ulna, initial encounter for open fracture type I or II                                    | Diagnosis     | ICD-10-CM |
| S52.202C | Unspecified fracture of shaft of left ulna, initial encounter for open fracture type IIIA, IIB, or IIC                          | Diagnosis     | ICD-10-CM |
| S52.202D | Unspecified fracture of shaft of left ulna, subsequent encounter for closed fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S52.202E | Unspecified fracture of shaft of left ulna, subsequent encounter for open fracture type I or II with routine healing            | Diagnosis     | ICD-10-CM |
| S52.202F | Unspecified fracture of shaft of left ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing  | Diagnosis     | ICD-10-CM |
| S52.202G | Unspecified fracture of shaft of left ulna, subsequent encounter for closed fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S52.202H | Unspecified fracture of shaft of left ulna, subsequent encounter for open fracture type I or II with delayed healing            | Diagnosis     | ICD-10-CM |
| S52.202J | Unspecified fracture of shaft of left ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S52.202K | Unspecified fracture of shaft of left ulna, subsequent encounter for closed fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S52.202M | Unspecified fracture of shaft of left ulna, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S52.202N | Unspecified fracture of shaft of left ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion         | Diagnosis     | ICD-10-CM |
| S52.202P | Unspecified fracture of shaft of left ulna, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S52.202Q | Unspecified fracture of shaft of left ulna, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S52.202R | Unspecified fracture of shaft of left ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion         | Diagnosis     | ICD-10-CM |
| S52.202S | Unspecified fracture of shaft of left ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.209  | Unspecified fracture of shaft of unspecified ulna   | Diagnosis     | ICD-10-CM |
| S52.209A | Unspecified fracture of shaft of unspecified ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.209B | Unspecified fracture of shaft of unspecified ulna, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.209C | Unspecified fracture of shaft of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.209D | Unspecified fracture of shaft of unspecified ulna, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.209E | Unspecified fracture of shaft of unspecified ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.209F | Unspecified fracture of shaft of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.209G | Unspecified fracture of shaft of unspecified ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.209H | Unspecified fracture of shaft of unspecified ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.209J | Unspecified fracture of shaft of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.209K | Unspecified fracture of shaft of unspecified ulna, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.209M | Unspecified fracture of shaft of unspecified ulna, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.209N | Unspecified fracture of shaft of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.209P | Unspecified fracture of shaft of unspecified ulna, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.209Q | Unspecified fracture of shaft of unspecified ulna, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.209R | Unspecified fracture of shaft of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.209S | Unspecified fracture of shaft of unspecified ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.21   | Greenstick fracture of shaft of ulna  | Diagnosis     | ICD-10-CM |
| S52.211  | Greenstick fracture of shaft of right ulna  | Diagnosis     | ICD-10-CM |
| S52.211A | Greenstick fracture of shaft of right ulna, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.211D | Greenstick fracture of shaft of right ulna, subsequent encounter for fracture with routine healing                                      | Diagnosis     | ICD-10-CM |
| S52.211G | Greenstick fracture of shaft of right ulna, subsequent encounter for fracture with delayed healing                                      | Diagnosis     | ICD-10-CM |
| S52.211K | Greenstick fracture of shaft of right ulna, subsequent encounter for fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S52.211P | Greenstick fracture of shaft of right ulna, subsequent encounter for fracture with malunion   | Diagnosis     | ICD-10-CM |
| S52.211S | Greenstick fracture of shaft of right ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.212  | Greenstick fracture of shaft of left ulna   | Diagnosis     | ICD-10-CM |
| S52.212A | Greenstick fracture of shaft of left ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.212D | Greenstick fracture of shaft of left ulna, subsequent encounter for fracture with routine healing                                       | Diagnosis     | ICD-10-CM |
| S52.212G | Greenstick fracture of shaft of left ulna, subsequent encounter for fracture with delayed healing                                       | Diagnosis     | ICD-10-CM |
| S52.212K | Greenstick fracture of shaft of left ulna, subsequent encounter for fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S52.212P | Greenstick fracture of shaft of left ulna, subsequent encounter for fracture with malunion  | Diagnosis     | ICD-10-CM |
| S52.212S | Greenstick fracture of shaft of left ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.219  | Greenstick fracture of shaft of unspecified ulna  | Diagnosis     | ICD-10-CM |
| S52.219A | Greenstick fracture of shaft of unspecified ulna, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.219D | Greenstick fracture of shaft of unspecified ulna, subsequent encounter for fracture with routine healing                                   | Diagnosis     | ICD-10-CM |
| S52.219G | Greenstick fracture of shaft of unspecified ulna, subsequent encounter for fracture with delayed healing                                   | Diagnosis     | ICD-10-CM |
| S52.219K | Greenstick fracture of shaft of unspecified ulna, subsequent encounter for fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S52.219P | Greenstick fracture of shaft of unspecified ulna, subsequent encounter for fracture with malunion  | Diagnosis     | ICD-10-CM |
| S52.219S | Greenstick fracture of shaft of unspecified ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.22   | Transverse fracture of shaft of ulna   | Diagnosis     | ICD-10-CM |
| S52.221  | Displaced transverse fracture of shaft of right ulna   | Diagnosis     | ICD-10-CM |
| S52.221A | Displaced transverse fracture of shaft of right ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.221B | Displaced transverse fracture of shaft of right ulna, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.221C | Displaced transverse fracture of shaft of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.221D | Displaced transverse fracture of shaft of right ulna, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.221E | Displaced transverse fracture of shaft of right ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.221F | Displaced transverse fracture of shaft of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.221G | Displaced transverse fracture of shaft of right ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.221H | Displaced transverse fracture of shaft of right ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.221J | Displaced transverse fracture of shaft of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.221K | Displaced transverse fracture of shaft of right ulna, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.221M | Displaced transverse fracture of shaft of right ulna, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.221N | Displaced transverse fracture of shaft of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.221P | Displaced transverse fracture of shaft of right ulna, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.221Q | Displaced transverse fracture of shaft of right ulna, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.221R | Displaced transverse fracture of shaft of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.221S | Displaced transverse fracture of shaft of right ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.222  | Displaced transverse fracture of shaft of left ulna  | Diagnosis     | ICD-10-CM |
| S52.222A | Displaced transverse fracture of shaft of left ulna, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.222B | Displaced transverse fracture of shaft of left ulna, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S52.222C | Displaced transverse fracture of shaft of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S52.222D | Displaced transverse fracture of shaft of left ulna, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.222E | Displaced transverse fracture of shaft of left ulna, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S52.222F | Displaced transverse fracture of shaft of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.222G | Displaced transverse fracture of shaft of left ulna, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.222H | Displaced transverse fracture of shaft of left ulna, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.222J | Displaced transverse fracture of shaft of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.222K | Displaced transverse fracture of shaft of left ulna, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.222M | Displaced transverse fracture of shaft of left ulna, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.222N | Displaced transverse fracture of shaft of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.222P | Displaced transverse fracture of shaft of left ulna, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.222Q | Displaced transverse fracture of shaft of left ulna, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.222R | Displaced transverse fracture of shaft of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.222S | Displaced transverse fracture of shaft of left ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.223  | Displaced transverse fracture of shaft of unspecified ulna   | Diagnosis     | ICD-10-CM |
| S52.223A | Displaced transverse fracture of shaft of unspecified ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.223B | Displaced transverse fracture of shaft of unspecified ulna, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.223C | Displaced transverse fracture of shaft of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.223D | Displaced transverse fracture of shaft of unspecified ulna, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.223E | Displaced transverse fracture of shaft of unspecified ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.223F | Displaced transverse fracture of shaft of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.223G | Displaced transverse fracture of shaft of unspecified ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.223H | Displaced transverse fracture of shaft of unspecified ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.223J | Displaced transverse fracture of shaft of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.223K | Displaced transverse fracture of shaft of unspecified ulna, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.223M | Displaced transverse fracture of shaft of unspecified ulna, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.223N | Displaced transverse fracture of shaft of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.223P | Displaced transverse fracture of shaft of unspecified ulna, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.223Q | Displaced transverse fracture of shaft of unspecified ulna, subsequent encounter for open fracture type I or II with malunion                 | Diagnosis     | ICD-10-CM |
| S52.223R | Displaced transverse fracture of shaft of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion     | Diagnosis     | ICD-10-CM |
| S52.223S | Displaced transverse fracture of shaft of unspecified ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.224  | Nondisplaced transverse fracture of shaft of right ulna   | Diagnosis     | ICD-10-CM |
| S52.224A | Nondisplaced transverse fracture of shaft of right ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.224B | Nondisplaced transverse fracture of shaft of right ulna, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.224C | Nondisplaced transverse fracture of shaft of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.224D | Nondisplaced transverse fracture of shaft of right ulna, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.224E | Nondisplaced transverse fracture of shaft of right ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.224F | Nondisplaced transverse fracture of shaft of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.224G | Nondisplaced transverse fracture of shaft of right ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.224H | Nondisplaced transverse fracture of shaft of right ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.224J | Nondisplaced transverse fracture of shaft of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.224K | Nondisplaced transverse fracture of shaft of right ulna, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.224M | Nondisplaced transverse fracture of shaft of right ulna, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.224N | Nondisplaced transverse fracture of shaft of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.224P | Nondisplaced transverse fracture of shaft of right ulna, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.224Q | Nondisplaced transverse fracture of shaft of right ulna, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.224R | Nondisplaced transverse fracture of shaft of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.224S | Nondisplaced transverse fracture of shaft of right ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.225  | Nondisplaced transverse fracture of shaft of left ulna  | Diagnosis     | ICD-10-CM |
| S52.225A | Nondisplaced transverse fracture of shaft of left ulna, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.225B | Nondisplaced transverse fracture of shaft of left ulna, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S52.225C | Nondisplaced transverse fracture of shaft of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S52.225D | Nondisplaced transverse fracture of shaft of left ulna, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S52.225E | Nondisplaced transverse fracture of shaft of left ulna, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S52.225F | Nondisplaced transverse fracture of shaft of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S52.225G | Nondisplaced transverse fracture of shaft of left ulna, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.225H | Nondisplaced transverse fracture of shaft of left ulna, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.225J | Nondisplaced transverse fracture of shaft of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.225K | Nondisplaced transverse fracture of shaft of left ulna, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.225M | Nondisplaced transverse fracture of shaft of left ulna, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.225N | Nondisplaced transverse fracture of shaft of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.225P | Nondisplaced transverse fracture of shaft of left ulna, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.225Q | Nondisplaced transverse fracture of shaft of left ulna, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.225R | Nondisplaced transverse fracture of shaft of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.225S | Nondisplaced transverse fracture of shaft of left ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.226  | Nondisplaced transverse fracture of shaft of unspecified ulna   | Diagnosis     | ICD-10-CM |
| S52.226A | Nondisplaced transverse fracture of shaft of unspecified ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.226B | Nondisplaced transverse fracture of shaft of unspecified ulna, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.226C | Nondisplaced transverse fracture of shaft of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.226D | Nondisplaced transverse fracture of shaft of unspecified ulna, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.226E | Nondisplaced transverse fracture of shaft of unspecified ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.226F | Nondisplaced transverse fracture of shaft of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.226G | Nondisplaced transverse fracture of shaft of unspecified ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.226H | Nondisplaced transverse fracture of shaft of unspecified ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.226J | Nondisplaced transverse fracture of shaft of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.226K | Nondisplaced transverse fracture of shaft of unspecified ulna, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.226M | Nondisplaced transverse fracture of shaft of unspecified ulna, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.226N | Nondisplaced transverse fracture of shaft of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.226P | Nondisplaced transverse fracture of shaft of unspecified ulna, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.226Q | Nondisplaced transverse fracture of shaft of unspecified ulna, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.226R | Nondisplaced transverse fracture of shaft of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.226S | Nondisplaced transverse fracture of shaft of unspecified ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.23   | Oblique fracture of shaft of ulna   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.231  | Displaced oblique fracture of shaft of right ulna   | Diagnosis     | ICD-10-CM |
| S52.231A | Displaced oblique fracture of shaft of right ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.231B | Displaced oblique fracture of shaft of right ulna, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.231C | Displaced oblique fracture of shaft of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.231D | Displaced oblique fracture of shaft of right ulna, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.231E | Displaced oblique fracture of shaft of right ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.231F | Displaced oblique fracture of shaft of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.231G | Displaced oblique fracture of shaft of right ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.231H | Displaced oblique fracture of shaft of right ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.231J | Displaced oblique fracture of shaft of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.231K | Displaced oblique fracture of shaft of right ulna, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.231M | Displaced oblique fracture of shaft of right ulna, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.231N | Displaced oblique fracture of shaft of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.231P | Displaced oblique fracture of shaft of right ulna, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.231Q | Displaced oblique fracture of shaft of right ulna, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.231R | Displaced oblique fracture of shaft of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.231S | Displaced oblique fracture of shaft of right ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.232  | Displaced oblique fracture of shaft of left ulna  | Diagnosis     | ICD-10-CM |
| S52.232A | Displaced oblique fracture of shaft of left ulna, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.232B | Displaced oblique fracture of shaft of left ulna, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S52.232C | Displaced oblique fracture of shaft of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S52.232D | Displaced oblique fracture of shaft of left ulna, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S52.232E | Displaced oblique fracture of shaft of left ulna, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S52.232F | Displaced oblique fracture of shaft of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S52.232G | Displaced oblique fracture of shaft of left ulna, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S52.232H | Displaced oblique fracture of shaft of left ulna, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S52.232J | Displaced oblique fracture of shaft of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S52.232K | Displaced oblique fracture of shaft of left ulna, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.232M | Displaced oblique fracture of shaft of left ulna, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.232N | Displaced oblique fracture of shaft of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.232P | Displaced oblique fracture of shaft of left ulna, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.232Q | Displaced oblique fracture of shaft of left ulna, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.232R | Displaced oblique fracture of shaft of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.232S | Displaced oblique fracture of shaft of left ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.233  | Displaced oblique fracture of shaft of unspecified ulna   | Diagnosis     | ICD-10-CM |
| S52.233A | Displaced oblique fracture of shaft of unspecified ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.233B | Displaced oblique fracture of shaft of unspecified ulna, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.233C | Displaced oblique fracture of shaft of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.233D | Displaced oblique fracture of shaft of unspecified ulna, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.233E | Displaced oblique fracture of shaft of unspecified ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.233F | Displaced oblique fracture of shaft of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.233G | Displaced oblique fracture of shaft of unspecified ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.233H | Displaced oblique fracture of shaft of unspecified ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.233J | Displaced oblique fracture of shaft of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.233K | Displaced oblique fracture of shaft of unspecified ulna, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.233M | Displaced oblique fracture of shaft of unspecified ulna, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.233N | Displaced oblique fracture of shaft of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.233P | Displaced oblique fracture of shaft of unspecified ulna, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.233Q | Displaced oblique fracture of shaft of unspecified ulna, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.233R | Displaced oblique fracture of shaft of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.233S | Displaced oblique fracture of shaft of unspecified ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.234  | Nondisplaced oblique fracture of shaft of right ulna  | Diagnosis     | ICD-10-CM |
| S52.234A | Nondisplaced oblique fracture of shaft of right ulna, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.234B | Nondisplaced oblique fracture of shaft of right ulna, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.234C | Nondisplaced oblique fracture of shaft of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S52.234D | Nondisplaced oblique fracture of shaft of right ulna, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.234E | Nondisplaced oblique fracture of shaft of right ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.234F | Nondisplaced oblique fracture of shaft of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.234G | Nondisplaced oblique fracture of shaft of right ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.234H | Nondisplaced oblique fracture of shaft of right ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.234J | Nondisplaced oblique fracture of shaft of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.234K | Nondisplaced oblique fracture of shaft of right ulna, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.234M | Nondisplaced oblique fracture of shaft of right ulna, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.234N | Nondisplaced oblique fracture of shaft of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.234P | Nondisplaced oblique fracture of shaft of right ulna, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.234Q | Nondisplaced oblique fracture of shaft of right ulna, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.234R | Nondisplaced oblique fracture of shaft of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.234S | Nondisplaced oblique fracture of shaft of right ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.235  | Nondisplaced oblique fracture of shaft of left ulna  | Diagnosis     | ICD-10-CM |
| S52.235A | Nondisplaced oblique fracture of shaft of left ulna, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.235B | Nondisplaced oblique fracture of shaft of left ulna, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S52.235C | Nondisplaced oblique fracture of shaft of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S52.235D | Nondisplaced oblique fracture of shaft of left ulna, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S52.235E | Nondisplaced oblique fracture of shaft of left ulna, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S52.235F | Nondisplaced oblique fracture of shaft of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S52.235G | Nondisplaced oblique fracture of shaft of left ulna, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S52.235H | Nondisplaced oblique fracture of shaft of left ulna, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S52.235J | Nondisplaced oblique fracture of shaft of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S52.235K | Nondisplaced oblique fracture of shaft of left ulna, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S52.235M | Nondisplaced oblique fracture of shaft of left ulna, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S52.235N | Nondisplaced oblique fracture of shaft of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S52.235P | Nondisplaced oblique fracture of shaft of left ulna, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.235Q | Nondisplaced oblique fracture of shaft of left ulna, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.235R | Nondisplaced oblique fracture of shaft of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.235S | Nondisplaced oblique fracture of shaft of left ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.236  | Nondisplaced oblique fracture of shaft of unspecified ulna   | Diagnosis     | ICD-10-CM |
| S52.236A | Nondisplaced oblique fracture of shaft of unspecified ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.236B | Nondisplaced oblique fracture of shaft of unspecified ulna, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.236C | Nondisplaced oblique fracture of shaft of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.236D | Nondisplaced oblique fracture of shaft of unspecified ulna, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.236E | Nondisplaced oblique fracture of shaft of unspecified ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.236F | Nondisplaced oblique fracture of shaft of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.236G | Nondisplaced oblique fracture of shaft of unspecified ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.236H | Nondisplaced oblique fracture of shaft of unspecified ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.236J | Nondisplaced oblique fracture of shaft of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.236K | Nondisplaced oblique fracture of shaft of unspecified ulna, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.236M | Nondisplaced oblique fracture of shaft of unspecified ulna, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.236N | Nondisplaced oblique fracture of shaft of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.236P | Nondisplaced oblique fracture of shaft of unspecified ulna, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.236Q | Nondisplaced oblique fracture of shaft of unspecified ulna, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.236R | Nondisplaced oblique fracture of shaft of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.236S | Nondisplaced oblique fracture of shaft of unspecified ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.24   | Spiral fracture of shaft of ulna   | Diagnosis     | ICD-10-CM |
| S52.241  | Displaced spiral fracture of shaft of ulna, right arm  | Diagnosis     | ICD-10-CM |
| S52.241A | Displaced spiral fracture of shaft of ulna, right arm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.241B | Displaced spiral fracture of shaft of ulna, right arm, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.241C | Displaced spiral fracture of shaft of ulna, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                              | Diagnosis     | ICD-10-CM |
| S52.241D | Displaced spiral fracture of shaft of ulna, right arm, subsequent encounter for closed fracture with routine healing                             | Diagnosis     | ICD-10-CM |
| S52.241E | Displaced spiral fracture of shaft of ulna, right arm, subsequent encounter for open fracture type I or II with routine healing                  | Diagnosis     | ICD-10-CM |
| S52.241F | Displaced spiral fracture of shaft of ulna, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.241G | Displaced spiral fracture of shaft of ulna, right arm, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.241H | Displaced spiral fracture of shaft of ulna, right arm, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.241J | Displaced spiral fracture of shaft of ulna, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.241K | Displaced spiral fracture of shaft of ulna, right arm, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.241M | Displaced spiral fracture of shaft of ulna, right arm, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.241N | Displaced spiral fracture of shaft of ulna, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.241P | Displaced spiral fracture of shaft of ulna, right arm, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.241Q | Displaced spiral fracture of shaft of ulna, right arm, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.241R | Displaced spiral fracture of shaft of ulna, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.241S | Displaced spiral fracture of shaft of ulna, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S52.242  | Displaced spiral fracture of shaft of ulna, left arm  | Diagnosis     | ICD-10-CM |
| S52.242A | Displaced spiral fracture of shaft of ulna, left arm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.242B | Displaced spiral fracture of shaft of ulna, left arm, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S52.242C | Displaced spiral fracture of shaft of ulna, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S52.242D | Displaced spiral fracture of shaft of ulna, left arm, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S52.242E | Displaced spiral fracture of shaft of ulna, left arm, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S52.242F | Displaced spiral fracture of shaft of ulna, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S52.242G | Displaced spiral fracture of shaft of ulna, left arm, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S52.242H | Displaced spiral fracture of shaft of ulna, left arm, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S52.242J | Displaced spiral fracture of shaft of ulna, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S52.242K | Displaced spiral fracture of shaft of ulna, left arm, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S52.242M | Displaced spiral fracture of shaft of ulna, left arm, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S52.242N | Displaced spiral fracture of shaft of ulna, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S52.242P | Displaced spiral fracture of shaft of ulna, left arm, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S52.242Q | Displaced spiral fracture of shaft of ulna, left arm, subsequent encounter for open fracture type I or II with malunion                     | Diagnosis     | ICD-10-CM |
| S52.242R | Displaced spiral fracture of shaft of ulna, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion         | Diagnosis     | ICD-10-CM |
| S52.242S | Displaced spiral fracture of shaft of ulna, left arm, sequela   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.243  | Displaced spiral fracture of shaft of ulna, unspecified arm   | Diagnosis     | ICD-10-CM |
| S52.243A | Displaced spiral fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.243B | Displaced spiral fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.243C | Displaced spiral fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.243D | Displaced spiral fracture of shaft of ulna, unspecified arm, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.243E | Displaced spiral fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.243F | Displaced spiral fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.243G | Displaced spiral fracture of shaft of ulna, unspecified arm, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.243H | Displaced spiral fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.243J | Displaced spiral fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.243K | Displaced spiral fracture of shaft of ulna, unspecified arm, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.243M | Displaced spiral fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.243N | Displaced spiral fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.243P | Displaced spiral fracture of shaft of ulna, unspecified arm, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.243Q | Displaced spiral fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.243R | Displaced spiral fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.243S | Displaced spiral fracture of shaft of ulna, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S52.244  | Nondisplaced spiral fracture of shaft of ulna, right arm  | Diagnosis     | ICD-10-CM |
| S52.244A | Nondisplaced spiral fracture of shaft of ulna, right arm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.244B | Nondisplaced spiral fracture of shaft of ulna, right arm, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.244C | Nondisplaced spiral fracture of shaft of ulna, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S52.244D | Nondisplaced spiral fracture of shaft of ulna, right arm, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S52.244E | Nondisplaced spiral fracture of shaft of ulna, right arm, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S52.244F | Nondisplaced spiral fracture of shaft of ulna, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S52.244G | Nondisplaced spiral fracture of shaft of ulna, right arm, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S52.244H | Nondisplaced spiral fracture of shaft of ulna, right arm, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S52.244J | Nondisplaced spiral fracture of shaft of ulna, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.244K | Nondisplaced spiral fracture of shaft of ulna, right arm, subsequent encounter for closed fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S52.244M | Nondisplaced spiral fracture of shaft of ulna, right arm, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S52.244N | Nondisplaced spiral fracture of shaft of ulna, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion       | Diagnosis     | ICD-10-CM |
| S52.244P | Nondisplaced spiral fracture of shaft of ulna, right arm, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S52.244Q | Nondisplaced spiral fracture of shaft of ulna, right arm, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S52.244R | Nondisplaced spiral fracture of shaft of ulna, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S52.244S | Nondisplaced spiral fracture of shaft of ulna, right arm, sequela   | Diagnosis     | ICD-10-CM |
| S52.245  | Nondisplaced spiral fracture of shaft of ulna, left arm   | Diagnosis     | ICD-10-CM |
| S52.245A | Nondisplaced spiral fracture of shaft of ulna, left arm, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.245B | Nondisplaced spiral fracture of shaft of ulna, left arm, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.245C | Nondisplaced spiral fracture of shaft of ulna, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.245D | Nondisplaced spiral fracture of shaft of ulna, left arm, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.245E | Nondisplaced spiral fracture of shaft of ulna, left arm, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.245F | Nondisplaced spiral fracture of shaft of ulna, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.245G | Nondisplaced spiral fracture of shaft of ulna, left arm, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.245H | Nondisplaced spiral fracture of shaft of ulna, left arm, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.245J | Nondisplaced spiral fracture of shaft of ulna, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.245K | Nondisplaced spiral fracture of shaft of ulna, left arm, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.245M | Nondisplaced spiral fracture of shaft of ulna, left arm, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.245N | Nondisplaced spiral fracture of shaft of ulna, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.245P | Nondisplaced spiral fracture of shaft of ulna, left arm, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.245Q | Nondisplaced spiral fracture of shaft of ulna, left arm, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.245R | Nondisplaced spiral fracture of shaft of ulna, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.245S | Nondisplaced spiral fracture of shaft of ulna, left arm, sequela  | Diagnosis     | ICD-10-CM |
| S52.246  | Nondisplaced spiral fracture of shaft of ulna, unspecified arm  | Diagnosis     | ICD-10-CM |
| S52.246A | Nondisplaced spiral fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.246B | Nondisplaced spiral fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.246C | Nondisplaced spiral fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.246D | Nondisplaced spiral fracture of shaft of ulna, unspecified arm, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.246E | Nondisplaced spiral fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.246F | Nondisplaced spiral fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.246G | Nondisplaced spiral fracture of shaft of ulna, unspecified arm, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.246H | Nondisplaced spiral fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.246J | Nondisplaced spiral fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.246K | Nondisplaced spiral fracture of shaft of ulna, unspecified arm, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.246M | Nondisplaced spiral fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.246N | Nondisplaced spiral fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.246P | Nondisplaced spiral fracture of shaft of ulna, unspecified arm, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.246Q | Nondisplaced spiral fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.246R | Nondisplaced spiral fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.246S | Nondisplaced spiral fracture of shaft of ulna, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S52.25   | Comminuted fracture of shaft of ulna   | Diagnosis     | ICD-10-CM |
| S52.251  | Displaced comminuted fracture of shaft of ulna, right arm  | Diagnosis     | ICD-10-CM |
| S52.251A | Displaced comminuted fracture of shaft of ulna, right arm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.251B | Displaced comminuted fracture of shaft of ulna, right arm, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.251C | Displaced comminuted fracture of shaft of ulna, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                              | Diagnosis     | ICD-10-CM |
| S52.251D | Displaced comminuted fracture of shaft of ulna, right arm, subsequent encounter for closed fracture with routine healing                             | Diagnosis     | ICD-10-CM |
| S52.251E | Displaced comminuted fracture of shaft of ulna, right arm, subsequent encounter for open fracture type I or II with routine healing                  | Diagnosis     | ICD-10-CM |
| S52.251F | Displaced comminuted fracture of shaft of ulna, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing      | Diagnosis     | ICD-10-CM |
| S52.251G | Displaced comminuted fracture of shaft of ulna, right arm, subsequent encounter for closed fracture with delayed healing                             | Diagnosis     | ICD-10-CM |
| S52.251H | Displaced comminuted fracture of shaft of ulna, right arm, subsequent encounter for open fracture type I or II with delayed healing                  | Diagnosis     | ICD-10-CM |
| S52.251J | Displaced comminuted fracture of shaft of ulna, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing      | Diagnosis     | ICD-10-CM |
| S52.251K | Displaced comminuted fracture of shaft of ulna, right arm, subsequent encounter for closed fracture with nonunion                                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.251M | Displaced comminuted fracture of shaft of ulna, right arm, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S52.251N | Displaced comminuted fracture of shaft of ulna, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion       | Diagnosis     | ICD-10-CM |
| S52.251P | Displaced comminuted fracture of shaft of ulna, right arm, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S52.251Q | Displaced comminuted fracture of shaft of ulna, right arm, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S52.251R | Displaced comminuted fracture of shaft of ulna, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S52.251S | Displaced comminuted fracture of shaft of ulna, right arm, sequela   | Diagnosis     | ICD-10-CM |
| S52.252  | Displaced comminuted fracture of shaft of ulna, left arm   | Diagnosis     | ICD-10-CM |
| S52.252A | Displaced comminuted fracture of shaft of ulna, left arm, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.252B | Displaced comminuted fracture of shaft of ulna, left arm, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.252C | Displaced comminuted fracture of shaft of ulna, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.252D | Displaced comminuted fracture of shaft of ulna, left arm, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.252E | Displaced comminuted fracture of shaft of ulna, left arm, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.252F | Displaced comminuted fracture of shaft of ulna, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.252G | Displaced comminuted fracture of shaft of ulna, left arm, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.252H | Displaced comminuted fracture of shaft of ulna, left arm, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.252J | Displaced comminuted fracture of shaft of ulna, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.252K | Displaced comminuted fracture of shaft of ulna, left arm, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.252M | Displaced comminuted fracture of shaft of ulna, left arm, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.252N | Displaced comminuted fracture of shaft of ulna, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.252P | Displaced comminuted fracture of shaft of ulna, left arm, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.252Q | Displaced comminuted fracture of shaft of ulna, left arm, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.252R | Displaced comminuted fracture of shaft of ulna, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.252S | Displaced comminuted fracture of shaft of ulna, left arm, sequela  | Diagnosis     | ICD-10-CM |
| S52.253  | Displaced comminuted fracture of shaft of ulna, unspecified arm  | Diagnosis     | ICD-10-CM |
| S52.253A | Displaced comminuted fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.253B | Displaced comminuted fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |
| S52.253C | Displaced comminuted fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.253D | Displaced comminuted fracture of shaft of ulna, unspecified arm, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S52.253E | Displaced comminuted fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S52.253F | Displaced comminuted fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.253G | Displaced comminuted fracture of shaft of ulna, unspecified arm, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S52.253H | Displaced comminuted fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S52.253J | Displaced comminuted fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.253K | Displaced comminuted fracture of shaft of ulna, unspecified arm, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S52.253M | Displaced comminuted fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S52.253N | Displaced comminuted fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.253P | Displaced comminuted fracture of shaft of ulna, unspecified arm, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S52.253Q | Displaced comminuted fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S52.253R | Displaced comminuted fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.253S | Displaced comminuted fracture of shaft of ulna, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S52.254  | Nondisplaced comminuted fracture of shaft of ulna, right arm  | Diagnosis     | ICD-10-CM |
| S52.254A | Nondisplaced comminuted fracture of shaft of ulna, right arm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.254B | Nondisplaced comminuted fracture of shaft of ulna, right arm, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S52.254C | Nondisplaced comminuted fracture of shaft of ulna, right arm, initial encounter for open fracture type IIIA, IIB, or IIC                            | Diagnosis     | ICD-10-CM |
| S52.254D | Nondisplaced comminuted fracture of shaft of ulna, right arm, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S52.254E | Nondisplaced comminuted fracture of shaft of ulna, right arm, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S52.254F | Nondisplaced comminuted fracture of shaft of ulna, right arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing    | Diagnosis     | ICD-10-CM |
| S52.254G | Nondisplaced comminuted fracture of shaft of ulna, right arm, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S52.254H | Nondisplaced comminuted fracture of shaft of ulna, right arm, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S52.254J | Nondisplaced comminuted fracture of shaft of ulna, right arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S52.254K | Nondisplaced comminuted fracture of shaft of ulna, right arm, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S52.254M | Nondisplaced comminuted fracture of shaft of ulna, right arm, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S52.254N | Nondisplaced comminuted fracture of shaft of ulna, right arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.254P | Nondisplaced comminuted fracture of shaft of ulna, right arm, subsequent encounter for closed fracture with malunion                            | Diagnosis     | ICD-10-CM |
| S52.254Q | Nondisplaced comminuted fracture of shaft of ulna, right arm, subsequent encounter for open fracture type I or II with malunion                 | Diagnosis     | ICD-10-CM |
| S52.254R | Nondisplaced comminuted fracture of shaft of ulna, right arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion       | Diagnosis     | ICD-10-CM |
| S52.254S | Nondisplaced comminuted fracture of shaft of ulna, right arm, sequela   | Diagnosis     | ICD-10-CM |
| S52.255  | Nondisplaced comminuted fracture of shaft of ulna, left arm   | Diagnosis     | ICD-10-CM |
| S52.255A | Nondisplaced comminuted fracture of shaft of ulna, left arm, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.255B | Nondisplaced comminuted fracture of shaft of ulna, left arm, initial encounter for open fracture type I or II                                   | Diagnosis     | ICD-10-CM |
| S52.255C | Nondisplaced comminuted fracture of shaft of ulna, left arm, initial encounter for open fracture type IIIA, IIB, or IIC                         | Diagnosis     | ICD-10-CM |
| S52.255D | Nondisplaced comminuted fracture of shaft of ulna, left arm, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S52.255E | Nondisplaced comminuted fracture of shaft of ulna, left arm, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S52.255F | Nondisplaced comminuted fracture of shaft of ulna, left arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.255G | Nondisplaced comminuted fracture of shaft of ulna, left arm, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S52.255H | Nondisplaced comminuted fracture of shaft of ulna, left arm, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S52.255J | Nondisplaced comminuted fracture of shaft of ulna, left arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.255K | Nondisplaced comminuted fracture of shaft of ulna, left arm, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S52.255M | Nondisplaced comminuted fracture of shaft of ulna, left arm, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S52.255N | Nondisplaced comminuted fracture of shaft of ulna, left arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.255P | Nondisplaced comminuted fracture of shaft of ulna, left arm, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S52.255Q | Nondisplaced comminuted fracture of shaft of ulna, left arm, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S52.255R | Nondisplaced comminuted fracture of shaft of ulna, left arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.255S | Nondisplaced comminuted fracture of shaft of ulna, left arm, sequela  | Diagnosis     | ICD-10-CM |
| S52.256  | Nondisplaced comminuted fracture of shaft of ulna, unspecified arm  | Diagnosis     | ICD-10-CM |
| S52.256A | Nondisplaced comminuted fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture                                       | Diagnosis     | ICD-10-CM |
| S52.256B | Nondisplaced comminuted fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type I or II                            | Diagnosis     | ICD-10-CM |
| S52.256C | Nondisplaced comminuted fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type IIIA, IIB, or IIC                  | Diagnosis     | ICD-10-CM |
| S52.256D | Nondisplaced comminuted fracture of shaft of ulna, unspecified arm, subsequent encounter for closed fracture with routine healing               | Diagnosis     | ICD-10-CM |
| S52.256E | Nondisplaced comminuted fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type I or II with routine healing    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.256F | Nondisplaced comminuted fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.256G | Nondisplaced comminuted fracture of shaft of ulna, unspecified arm, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.256H | Nondisplaced comminuted fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.256J | Nondisplaced comminuted fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.256K | Nondisplaced comminuted fracture of shaft of ulna, unspecified arm, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.256M | Nondisplaced comminuted fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.256N | Nondisplaced comminuted fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.256P | Nondisplaced comminuted fracture of shaft of ulna, unspecified arm, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.256Q | Nondisplaced comminuted fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.256R | Nondisplaced comminuted fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.256S | Nondisplaced comminuted fracture of shaft of ulna, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S52.26   | Segmental fracture of shaft of ulna  | Diagnosis     | ICD-10-CM |
| S52.261  | Displaced segmental fracture of shaft of ulna, right arm   | Diagnosis     | ICD-10-CM |
| S52.261A | Displaced segmental fracture of shaft of ulna, right arm, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.261B | Displaced segmental fracture of shaft of ulna, right arm, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S52.261C | Displaced segmental fracture of shaft of ulna, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                                   | Diagnosis     | ICD-10-CM |
| S52.261D | Displaced segmental fracture of shaft of ulna, right arm, subsequent encounter for closed fracture with routine healing                                  | Diagnosis     | ICD-10-CM |
| S52.261E | Displaced segmental fracture of shaft of ulna, right arm, subsequent encounter for open fracture type I or II with routine healing                       | Diagnosis     | ICD-10-CM |
| S52.261F | Displaced segmental fracture of shaft of ulna, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing           | Diagnosis     | ICD-10-CM |
| S52.261G | Displaced segmental fracture of shaft of ulna, right arm, subsequent encounter for closed fracture with delayed healing                                  | Diagnosis     | ICD-10-CM |
| S52.261H | Displaced segmental fracture of shaft of ulna, right arm, subsequent encounter for open fracture type I or II with delayed healing                       | Diagnosis     | ICD-10-CM |
| S52.261J | Displaced segmental fracture of shaft of ulna, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing           | Diagnosis     | ICD-10-CM |
| S52.261K | Displaced segmental fracture of shaft of ulna, right arm, subsequent encounter for closed fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S52.261M | Displaced segmental fracture of shaft of ulna, right arm, subsequent encounter for open fracture type I or II with nonunion                              | Diagnosis     | ICD-10-CM |
| S52.261N | Displaced segmental fracture of shaft of ulna, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion                  | Diagnosis     | ICD-10-CM |
| S52.261P | Displaced segmental fracture of shaft of ulna, right arm, subsequent encounter for closed fracture with malunion   | Diagnosis     | ICD-10-CM |
| S52.261Q | Displaced segmental fracture of shaft of ulna, right arm, subsequent encounter for open fracture type I or II with malunion                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.261R | Displaced segmental fracture of shaft of ulna, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion              | Diagnosis     | ICD-10-CM |
| S52.261S | Displaced segmental fracture of shaft of ulna, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S52.262  | Displaced segmental fracture of shaft of ulna, left arm  | Diagnosis     | ICD-10-CM |
| S52.262A | Displaced segmental fracture of shaft of ulna, left arm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.262B | Displaced segmental fracture of shaft of ulna, left arm, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.262C | Displaced segmental fracture of shaft of ulna, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S52.262D | Displaced segmental fracture of shaft of ulna, left arm, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S52.262E | Displaced segmental fracture of shaft of ulna, left arm, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S52.262F | Displaced segmental fracture of shaft of ulna, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.262G | Displaced segmental fracture of shaft of ulna, left arm, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.262H | Displaced segmental fracture of shaft of ulna, left arm, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.262J | Displaced segmental fracture of shaft of ulna, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.262K | Displaced segmental fracture of shaft of ulna, left arm, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.262M | Displaced segmental fracture of shaft of ulna, left arm, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.262N | Displaced segmental fracture of shaft of ulna, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.262P | Displaced segmental fracture of shaft of ulna, left arm, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.262Q | Displaced segmental fracture of shaft of ulna, left arm, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.262R | Displaced segmental fracture of shaft of ulna, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.262S | Displaced segmental fracture of shaft of ulna, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S52.263  | Displaced segmental fracture of shaft of ulna, unspecified arm   | Diagnosis     | ICD-10-CM |
| S52.263A | Displaced segmental fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.263B | Displaced segmental fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.263C | Displaced segmental fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.263D | Displaced segmental fracture of shaft of ulna, unspecified arm, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.263E | Displaced segmental fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.263F | Displaced segmental fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.263G | Displaced segmental fracture of shaft of ulna, unspecified arm, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.263H | Displaced segmental fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S52.263J | Displaced segmental fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.263K | Displaced segmental fracture of shaft of ulna, unspecified arm, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S52.263M | Displaced segmental fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S52.263N | Displaced segmental fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.263P | Displaced segmental fracture of shaft of ulna, unspecified arm, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S52.263Q | Displaced segmental fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S52.263R | Displaced segmental fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.263S | Displaced segmental fracture of shaft of ulna, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S52.264  | Nondisplaced segmental fracture of shaft of ulna, right arm  | Diagnosis     | ICD-10-CM |
| S52.264A | Nondisplaced segmental fracture of shaft of ulna, right arm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.264B | Nondisplaced segmental fracture of shaft of ulna, right arm, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S52.264C | Nondisplaced segmental fracture of shaft of ulna, right arm, initial encounter for open fracture type IIIA, IIB, or IIC                            | Diagnosis     | ICD-10-CM |
| S52.264D | Nondisplaced segmental fracture of shaft of ulna, right arm, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S52.264E | Nondisplaced segmental fracture of shaft of ulna, right arm, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S52.264F | Nondisplaced segmental fracture of shaft of ulna, right arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing    | Diagnosis     | ICD-10-CM |
| S52.264G | Nondisplaced segmental fracture of shaft of ulna, right arm, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S52.264H | Nondisplaced segmental fracture of shaft of ulna, right arm, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S52.264J | Nondisplaced segmental fracture of shaft of ulna, right arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S52.264K | Nondisplaced segmental fracture of shaft of ulna, right arm, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S52.264M | Nondisplaced segmental fracture of shaft of ulna, right arm, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S52.264N | Nondisplaced segmental fracture of shaft of ulna, right arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion           | Diagnosis     | ICD-10-CM |
| S52.264P | Nondisplaced segmental fracture of shaft of ulna, right arm, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S52.264Q | Nondisplaced segmental fracture of shaft of ulna, right arm, subsequent encounter for open fracture type I or II with malunion                     | Diagnosis     | ICD-10-CM |
| S52.264R | Nondisplaced segmental fracture of shaft of ulna, right arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion           | Diagnosis     | ICD-10-CM |
| S52.264S | Nondisplaced segmental fracture of shaft of ulna, right arm, sequela   | Diagnosis     | ICD-10-CM |
| S52.265  | Nondisplaced segmental fracture of shaft of ulna, left arm   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.265A | Nondisplaced segmental fracture of shaft of ulna, left arm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.265B | Nondisplaced segmental fracture of shaft of ulna, left arm, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.265C | Nondisplaced segmental fracture of shaft of ulna, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S52.265D | Nondisplaced segmental fracture of shaft of ulna, left arm, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S52.265E | Nondisplaced segmental fracture of shaft of ulna, left arm, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S52.265F | Nondisplaced segmental fracture of shaft of ulna, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.265G | Nondisplaced segmental fracture of shaft of ulna, left arm, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.265H | Nondisplaced segmental fracture of shaft of ulna, left arm, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.265J | Nondisplaced segmental fracture of shaft of ulna, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.265K | Nondisplaced segmental fracture of shaft of ulna, left arm, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.265M | Nondisplaced segmental fracture of shaft of ulna, left arm, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.265N | Nondisplaced segmental fracture of shaft of ulna, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.265P | Nondisplaced segmental fracture of shaft of ulna, left arm, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.265Q | Nondisplaced segmental fracture of shaft of ulna, left arm, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.265R | Nondisplaced segmental fracture of shaft of ulna, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.265S | Nondisplaced segmental fracture of shaft of ulna, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S52.266  | Nondisplaced segmental fracture of shaft of ulna, unspecified arm   | Diagnosis     | ICD-10-CM |
| S52.266A | Nondisplaced segmental fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.266B | Nondisplaced segmental fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.266C | Nondisplaced segmental fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.266D | Nondisplaced segmental fracture of shaft of ulna, unspecified arm, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.266E | Nondisplaced segmental fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.266F | Nondisplaced segmental fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.266G | Nondisplaced segmental fracture of shaft of ulna, unspecified arm, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.266H | Nondisplaced segmental fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.266J | Nondisplaced segmental fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.266K | Nondisplaced segmental fracture of shaft of ulna, unspecified arm, subsequent encounter for closed fracture with nonunion                      | Diagnosis     | ICD-10-CM |
| S52.266M | Nondisplaced segmental fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type I or II with nonunion           | Diagnosis     | ICD-10-CM |
| S52.266N | Nondisplaced segmental fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion | Diagnosis     | ICD-10-CM |
| S52.266P | Nondisplaced segmental fracture of shaft of ulna, unspecified arm, subsequent encounter for closed fracture with malunion                      | Diagnosis     | ICD-10-CM |
| S52.266Q | Nondisplaced segmental fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type I or II with malunion           | Diagnosis     | ICD-10-CM |
| S52.266R | Nondisplaced segmental fracture of shaft of ulna, unspecified arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion | Diagnosis     | ICD-10-CM |
| S52.266S | Nondisplaced segmental fracture of shaft of ulna, unspecified arm, sequela   | Diagnosis     | ICD-10-CM |
| S52.27   | Monteggia's fracture of ulna   | Diagnosis     | ICD-10-CM |
| S52.271  | Monteggia's fracture of right ulna   | Diagnosis     | ICD-10-CM |
| S52.271A | Monteggia's fracture of right ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.271B | Monteggia's fracture of right ulna, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S52.271C | Monteggia's fracture of right ulna, initial encounter for open fracture type IIIA, IIB, or IIC   | Diagnosis     | ICD-10-CM |
| S52.271D | Monteggia's fracture of right ulna, subsequent encounter for closed fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S52.271E | Monteggia's fracture of right ulna, subsequent encounter for open fracture type I or II with routine healing                                   | Diagnosis     | ICD-10-CM |
| S52.271F | Monteggia's fracture of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing                         | Diagnosis     | ICD-10-CM |
| S52.271G | Monteggia's fracture of right ulna, subsequent encounter for closed fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S52.271H | Monteggia's fracture of right ulna, subsequent encounter for open fracture type I or II with delayed healing                                   | Diagnosis     | ICD-10-CM |
| S52.271J | Monteggia's fracture of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing                         | Diagnosis     | ICD-10-CM |
| S52.271K | Monteggia's fracture of right ulna, subsequent encounter for closed fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S52.271M | Monteggia's fracture of right ulna, subsequent encounter for open fracture type I or II with nonunion  | Diagnosis     | ICD-10-CM |
| S52.271N | Monteggia's fracture of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion                                | Diagnosis     | ICD-10-CM |
| S52.271P | Monteggia's fracture of right ulna, subsequent encounter for closed fracture with malunion   | Diagnosis     | ICD-10-CM |
| S52.271Q | Monteggia's fracture of right ulna, subsequent encounter for open fracture type I or II with malunion  | Diagnosis     | ICD-10-CM |
| S52.271R | Monteggia's fracture of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion                                | Diagnosis     | ICD-10-CM |
| S52.271S | Monteggia's fracture of right ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.272  | Monteggia's fracture of left ulna  | Diagnosis     | ICD-10-CM |
| S52.272A | Monteggia's fracture of left ulna, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.272B | Monteggia's fracture of left ulna, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.272C | Monteggia's fracture of left ulna, initial encounter for open fracture type IIIA, IIB, or IIC  | Diagnosis     | ICD-10-CM |
| S52.272D | Monteggia's fracture of left ulna, subsequent encounter for closed fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S52.272E | Monteggia's fracture of left ulna, subsequent encounter for open fracture type I or II with routine healing                                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.272F | Monteggia's fracture of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.272G | Monteggia's fracture of left ulna, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.272H | Monteggia's fracture of left ulna, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.272J | Monteggia's fracture of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.272K | Monteggia's fracture of left ulna, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.272M | Monteggia's fracture of left ulna, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.272N | Monteggia's fracture of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.272P | Monteggia's fracture of left ulna, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.272Q | Monteggia's fracture of left ulna, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.272R | Monteggia's fracture of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.272S | Monteggia's fracture of left ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.279  | Monteggia's fracture of unspecified ulna   | Diagnosis     | ICD-10-CM |
| S52.279A | Monteggia's fracture of unspecified ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.279B | Monteggia's fracture of unspecified ulna, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.279C | Monteggia's fracture of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.279D | Monteggia's fracture of unspecified ulna, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.279E | Monteggia's fracture of unspecified ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.279F | Monteggia's fracture of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.279G | Monteggia's fracture of unspecified ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.279H | Monteggia's fracture of unspecified ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.279J | Monteggia's fracture of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.279K | Monteggia's fracture of unspecified ulna, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.279M | Monteggia's fracture of unspecified ulna, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.279N | Monteggia's fracture of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.279P | Monteggia's fracture of unspecified ulna, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.279Q | Monteggia's fracture of unspecified ulna, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.279R | Monteggia's fracture of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.279S | Monteggia's fracture of unspecified ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.28   | Bent bone of ulna  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.281  | Bent bone of right ulna   | Diagnosis     | ICD-10-CM |
| S52.281A | Bent bone of right ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.281B | Bent bone of right ulna, initial encounter for open fracture type I or II                                   | Diagnosis     | ICD-10-CM |
| S52.281C | Bent bone of right ulna, initial encounter for open fracture type IIIA, IIB, or IIC                         | Diagnosis     | ICD-10-CM |
| S52.281D | Bent bone of right ulna, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S52.281E | Bent bone of right ulna, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S52.281F | Bent bone of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.281G | Bent bone of right ulna, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S52.281H | Bent bone of right ulna, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S52.281J | Bent bone of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.281K | Bent bone of right ulna, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S52.281M | Bent bone of right ulna, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S52.281N | Bent bone of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.281P | Bent bone of right ulna, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S52.281Q | Bent bone of right ulna, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S52.281R | Bent bone of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.281S | Bent bone of right ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.282  | Bent bone of left ulna  | Diagnosis     | ICD-10-CM |
| S52.282A | Bent bone of left ulna, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.282B | Bent bone of left ulna, initial encounter for open fracture type I or II                                    | Diagnosis     | ICD-10-CM |
| S52.282C | Bent bone of left ulna, initial encounter for open fracture type IIIA, IIB, or IIC                          | Diagnosis     | ICD-10-CM |
| S52.282D | Bent bone of left ulna, subsequent encounter for closed fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S52.282E | Bent bone of left ulna, subsequent encounter for open fracture type I or II with routine healing            | Diagnosis     | ICD-10-CM |
| S52.282F | Bent bone of left ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing  | Diagnosis     | ICD-10-CM |
| S52.282G | Bent bone of left ulna, subsequent encounter for closed fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S52.282H | Bent bone of left ulna, subsequent encounter for open fracture type I or II with delayed healing            | Diagnosis     | ICD-10-CM |
| S52.282J | Bent bone of left ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S52.282K | Bent bone of left ulna, subsequent encounter for closed fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S52.282M | Bent bone of left ulna, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S52.282N | Bent bone of left ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion         | Diagnosis     | ICD-10-CM |
| S52.282P | Bent bone of left ulna, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S52.282Q | Bent bone of left ulna, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S52.282R | Bent bone of left ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion         | Diagnosis     | ICD-10-CM |
| S52.282S | Bent bone of left ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.283  | Bent bone of unspecified ulna   | Diagnosis     | ICD-10-CM |
| S52.283A | Bent bone of unspecified ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.283B | Bent bone of unspecified ulna, initial encounter for open fracture type I or II                             | Diagnosis     | ICD-10-CM |
| S52.283C | Bent bone of unspecified ulna, initial encounter for open fracture type IIIA, IIB, or IIC                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.283D | Bent bone of unspecified ulna, subsequent encounter for closed fracture with routine healing                              | Diagnosis     | ICD-10-CM |
| S52.283E | Bent bone of unspecified ulna, subsequent encounter for open fracture type I or II with routine healing                   | Diagnosis     | ICD-10-CM |
| S52.283F | Bent bone of unspecified ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing         | Diagnosis     | ICD-10-CM |
| S52.283G | Bent bone of unspecified ulna, subsequent encounter for closed fracture with delayed healing                              | Diagnosis     | ICD-10-CM |
| S52.283H | Bent bone of unspecified ulna, subsequent encounter for open fracture type I or II with delayed healing                   | Diagnosis     | ICD-10-CM |
| S52.283J | Bent bone of unspecified ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing         | Diagnosis     | ICD-10-CM |
| S52.283K | Bent bone of unspecified ulna, subsequent encounter for closed fracture with nonunion                                     | Diagnosis     | ICD-10-CM |
| S52.283M | Bent bone of unspecified ulna, subsequent encounter for open fracture type I or II with nonunion                          | Diagnosis     | ICD-10-CM |
| S52.283N | Bent bone of unspecified ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion                | Diagnosis     | ICD-10-CM |
| S52.283P | Bent bone of unspecified ulna, subsequent encounter for closed fracture with malunion                                     | Diagnosis     | ICD-10-CM |
| S52.283Q | Bent bone of unspecified ulna, subsequent encounter for open fracture type I or II with malunion                          | Diagnosis     | ICD-10-CM |
| S52.283R | Bent bone of unspecified ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion                | Diagnosis     | ICD-10-CM |
| S52.283S | Bent bone of unspecified ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.29   | Other fracture of shaft of ulna   | Diagnosis     | ICD-10-CM |
| S52.291  | Other fracture of shaft of right ulna   | Diagnosis     | ICD-10-CM |
| S52.291A | Other fracture of shaft of right ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.291B | Other fracture of shaft of right ulna, initial encounter for open fracture type I or II                                   | Diagnosis     | ICD-10-CM |
| S52.291C | Other fracture of shaft of right ulna, initial encounter for open fracture type IIIA, IIB, or IIC                         | Diagnosis     | ICD-10-CM |
| S52.291D | Other fracture of shaft of right ulna, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S52.291E | Other fracture of shaft of right ulna, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S52.291F | Other fracture of shaft of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.291G | Other fracture of shaft of right ulna, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S52.291H | Other fracture of shaft of right ulna, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S52.291J | Other fracture of shaft of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.291K | Other fracture of shaft of right ulna, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S52.291M | Other fracture of shaft of right ulna, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S52.291N | Other fracture of shaft of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.291P | Other fracture of shaft of right ulna, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S52.291Q | Other fracture of shaft of right ulna, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.291R | Other fracture of shaft of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion              | Diagnosis     | ICD-10-CM |
| S52.291S | Other fracture of shaft of right ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.292  | Other fracture of shaft of left ulna  | Diagnosis     | ICD-10-CM |
| S52.292A | Other fracture of shaft of left ulna, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.292B | Other fracture of shaft of left ulna, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.292C | Other fracture of shaft of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S52.292D | Other fracture of shaft of left ulna, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S52.292E | Other fracture of shaft of left ulna, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S52.292F | Other fracture of shaft of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.292G | Other fracture of shaft of left ulna, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.292H | Other fracture of shaft of left ulna, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.292J | Other fracture of shaft of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.292K | Other fracture of shaft of left ulna, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.292M | Other fracture of shaft of left ulna, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.292N | Other fracture of shaft of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.292P | Other fracture of shaft of left ulna, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.292Q | Other fracture of shaft of left ulna, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.292R | Other fracture of shaft of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.292S | Other fracture of shaft of left ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.299  | Other fracture of shaft of unspecified ulna   | Diagnosis     | ICD-10-CM |
| S52.299A | Other fracture of shaft of unspecified ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.299B | Other fracture of shaft of unspecified ulna, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.299C | Other fracture of shaft of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.299D | Other fracture of shaft of unspecified ulna, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.299E | Other fracture of shaft of unspecified ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.299F | Other fracture of shaft of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.299G | Other fracture of shaft of unspecified ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.299H | Other fracture of shaft of unspecified ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.299J | Other fracture of shaft of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.299K | Other fracture of shaft of unspecified ulna, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.299M | Other fracture of shaft of unspecified ulna, subsequent encounter for open fracture type I or II with nonunion                      | Diagnosis     | ICD-10-CM |
| S52.299N | Other fracture of shaft of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion          | Diagnosis     | ICD-10-CM |
| S52.299P | Other fracture of shaft of unspecified ulna, subsequent encounter for closed fracture with malunion                                 | Diagnosis     | ICD-10-CM |
| S52.299Q | Other fracture of shaft of unspecified ulna, subsequent encounter for open fracture type I or II with malunion                      | Diagnosis     | ICD-10-CM |
| S52.299R | Other fracture of shaft of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion          | Diagnosis     | ICD-10-CM |
| S52.299S | Other fracture of shaft of unspecified ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.3    | Fracture of shaft of radius   | Diagnosis     | ICD-10-CM |
| S52.30   | Unspecified fracture of shaft of radius   | Diagnosis     | ICD-10-CM |
| S52.301  | Unspecified fracture of shaft of right radius   | Diagnosis     | ICD-10-CM |
| S52.301A | Unspecified fracture of shaft of right radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.301B | Unspecified fracture of shaft of right radius, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.301C | Unspecified fracture of shaft of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.301D | Unspecified fracture of shaft of right radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.301E | Unspecified fracture of shaft of right radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.301F | Unspecified fracture of shaft of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.301G | Unspecified fracture of shaft of right radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.301H | Unspecified fracture of shaft of right radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.301J | Unspecified fracture of shaft of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.301K | Unspecified fracture of shaft of right radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.301M | Unspecified fracture of shaft of right radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.301N | Unspecified fracture of shaft of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.301P | Unspecified fracture of shaft of right radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.301Q | Unspecified fracture of shaft of right radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.301R | Unspecified fracture of shaft of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.301S | Unspecified fracture of shaft of right radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.302  | Unspecified fracture of shaft of left radius  | Diagnosis     | ICD-10-CM |
| S52.302A | Unspecified fracture of shaft of left radius, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.302B | Unspecified fracture of shaft of left radius, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S52.302C | Unspecified fracture of shaft of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S52.302D | Unspecified fracture of shaft of left radius, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.302E | Unspecified fracture of shaft of left radius, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S52.302F | Unspecified fracture of shaft of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.302G | Unspecified fracture of shaft of left radius, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.302H | Unspecified fracture of shaft of left radius, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.302J | Unspecified fracture of shaft of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.302K | Unspecified fracture of shaft of left radius, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.302M | Unspecified fracture of shaft of left radius, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.302N | Unspecified fracture of shaft of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.302P | Unspecified fracture of shaft of left radius, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.302Q | Unspecified fracture of shaft of left radius, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.302R | Unspecified fracture of shaft of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.302S | Unspecified fracture of shaft of left radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.309  | Unspecified fracture of shaft of unspecified radius   | Diagnosis     | ICD-10-CM |
| S52.309A | Unspecified fracture of shaft of unspecified radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.309B | Unspecified fracture of shaft of unspecified radius, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.309C | Unspecified fracture of shaft of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.309D | Unspecified fracture of shaft of unspecified radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.309E | Unspecified fracture of shaft of unspecified radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.309F | Unspecified fracture of shaft of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.309G | Unspecified fracture of shaft of unspecified radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.309H | Unspecified fracture of shaft of unspecified radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.309J | Unspecified fracture of shaft of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.309K | Unspecified fracture of shaft of unspecified radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.309M | Unspecified fracture of shaft of unspecified radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.309N | Unspecified fracture of shaft of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.309P | Unspecified fracture of shaft of unspecified radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.309Q | Unspecified fracture of shaft of unspecified radius, subsequent encounter for open fracture type I or II with malunion             | Diagnosis     | ICD-10-CM |
| S52.309R | Unspecified fracture of shaft of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion | Diagnosis     | ICD-10-CM |
| S52.309S | Unspecified fracture of shaft of unspecified radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.31   | Greenstick fracture of shaft of radius   | Diagnosis     | ICD-10-CM |
| S52.311  | Greenstick fracture of shaft of radius, right arm  | Diagnosis     | ICD-10-CM |
| S52.311A | Greenstick fracture of shaft of radius, right arm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.311D | Greenstick fracture of shaft of radius, right arm, subsequent encounter for fracture with routine healing                          | Diagnosis     | ICD-10-CM |
| S52.311G | Greenstick fracture of shaft of radius, right arm, subsequent encounter for fracture with delayed healing                          | Diagnosis     | ICD-10-CM |
| S52.311K | Greenstick fracture of shaft of radius, right arm, subsequent encounter for fracture with nonunion                                 | Diagnosis     | ICD-10-CM |
| S52.311P | Greenstick fracture of shaft of radius, right arm, subsequent encounter for fracture with malunion                                 | Diagnosis     | ICD-10-CM |
| S52.311S | Greenstick fracture of shaft of radius, right arm, sequela   | Diagnosis     | ICD-10-CM |
| S52.312  | Greenstick fracture of shaft of radius, left arm   | Diagnosis     | ICD-10-CM |
| S52.312A | Greenstick fracture of shaft of radius, left arm, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.312D | Greenstick fracture of shaft of radius, left arm, subsequent encounter for fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S52.312G | Greenstick fracture of shaft of radius, left arm, subsequent encounter for fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S52.312K | Greenstick fracture of shaft of radius, left arm, subsequent encounter for fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S52.312P | Greenstick fracture of shaft of radius, left arm, subsequent encounter for fracture with malunion                                  | Diagnosis     | ICD-10-CM |
| S52.312S | Greenstick fracture of shaft of radius, left arm, sequela  | Diagnosis     | ICD-10-CM |
| S52.319  | Greenstick fracture of shaft of radius, unspecified arm  | Diagnosis     | ICD-10-CM |
| S52.319A | Greenstick fracture of shaft of radius, unspecified arm, initial encounter for closed fracture                                     | Diagnosis     | ICD-10-CM |
| S52.319D | Greenstick fracture of shaft of radius, unspecified arm, subsequent encounter for fracture with routine healing                    | Diagnosis     | ICD-10-CM |
| S52.319G | Greenstick fracture of shaft of radius, unspecified arm, subsequent encounter for fracture with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.319K | Greenstick fracture of shaft of radius, unspecified arm, subsequent encounter for fracture with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.319P | Greenstick fracture of shaft of radius, unspecified arm, subsequent encounter for fracture with malunion                           | Diagnosis     | ICD-10-CM |
| S52.319S | Greenstick fracture of shaft of radius, unspecified arm, sequela   | Diagnosis     | ICD-10-CM |
| S52.32   | Transverse fracture of shaft of radius   | Diagnosis     | ICD-10-CM |
| S52.321  | Displaced transverse fracture of shaft of right radius   | Diagnosis     | ICD-10-CM |
| S52.321A | Displaced transverse fracture of shaft of right radius, initial encounter for closed fracture                                      | Diagnosis     | ICD-10-CM |
| S52.321B | Displaced transverse fracture of shaft of right radius, initial encounter for open fracture type I or II                           | Diagnosis     | ICD-10-CM |
| S52.321C | Displaced transverse fracture of shaft of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC               | Diagnosis     | ICD-10-CM |
| S52.321D | Displaced transverse fracture of shaft of right radius, subsequent encounter for closed fracture with routine healing              | Diagnosis     | ICD-10-CM |
| S52.321E | Displaced transverse fracture of shaft of right radius, subsequent encounter for open fracture type I or II with routine healing   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.321F | Displaced transverse fracture of shaft of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.321G | Displaced transverse fracture of shaft of right radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.321H | Displaced transverse fracture of shaft of right radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.321J | Displaced transverse fracture of shaft of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.321K | Displaced transverse fracture of shaft of right radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.321M | Displaced transverse fracture of shaft of right radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.321N | Displaced transverse fracture of shaft of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.321P | Displaced transverse fracture of shaft of right radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.321Q | Displaced transverse fracture of shaft of right radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.321R | Displaced transverse fracture of shaft of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.321S | Displaced transverse fracture of shaft of right radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.322  | Displaced transverse fracture of shaft of left radius  | Diagnosis     | ICD-10-CM |
| S52.322A | Displaced transverse fracture of shaft of left radius, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.322B | Displaced transverse fracture of shaft of left radius, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S52.322C | Displaced transverse fracture of shaft of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S52.322D | Displaced transverse fracture of shaft of left radius, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S52.322E | Displaced transverse fracture of shaft of left radius, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S52.322F | Displaced transverse fracture of shaft of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S52.322G | Displaced transverse fracture of shaft of left radius, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S52.322H | Displaced transverse fracture of shaft of left radius, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S52.322J | Displaced transverse fracture of shaft of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S52.322K | Displaced transverse fracture of shaft of left radius, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S52.322M | Displaced transverse fracture of shaft of left radius, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S52.322N | Displaced transverse fracture of shaft of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S52.322P | Displaced transverse fracture of shaft of left radius, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S52.322Q | Displaced transverse fracture of shaft of left radius, subsequent encounter for open fracture type I or II with malunion                     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.322R | Displaced transverse fracture of shaft of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.322S | Displaced transverse fracture of shaft of left radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.323  | Displaced transverse fracture of shaft of unspecified radius   | Diagnosis     | ICD-10-CM |
| S52.323A | Displaced transverse fracture of shaft of unspecified radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.323B | Displaced transverse fracture of shaft of unspecified radius, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.323C | Displaced transverse fracture of shaft of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.323D | Displaced transverse fracture of shaft of unspecified radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.323E | Displaced transverse fracture of shaft of unspecified radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.323F | Displaced transverse fracture of shaft of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.323G | Displaced transverse fracture of shaft of unspecified radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.323H | Displaced transverse fracture of shaft of unspecified radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.323J | Displaced transverse fracture of shaft of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.323K | Displaced transverse fracture of shaft of unspecified radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.323M | Displaced transverse fracture of shaft of unspecified radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.323N | Displaced transverse fracture of shaft of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.323P | Displaced transverse fracture of shaft of unspecified radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.323Q | Displaced transverse fracture of shaft of unspecified radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.323R | Displaced transverse fracture of shaft of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.323S | Displaced transverse fracture of shaft of unspecified radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.324  | Nondisplaced transverse fracture of shaft of right radius  | Diagnosis     | ICD-10-CM |
| S52.324A | Nondisplaced transverse fracture of shaft of right radius, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.324B | Nondisplaced transverse fracture of shaft of right radius, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.324C | Nondisplaced transverse fracture of shaft of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S52.324D | Nondisplaced transverse fracture of shaft of right radius, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S52.324E | Nondisplaced transverse fracture of shaft of right radius, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S52.324F | Nondisplaced transverse fracture of shaft of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S52.324G | Nondisplaced transverse fracture of shaft of right radius, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.324H | Nondisplaced transverse fracture of shaft of right radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.324J | Nondisplaced transverse fracture of shaft of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.324K | Nondisplaced transverse fracture of shaft of right radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.324M | Nondisplaced transverse fracture of shaft of right radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.324N | Nondisplaced transverse fracture of shaft of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.324P | Nondisplaced transverse fracture of shaft of right radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.324Q | Nondisplaced transverse fracture of shaft of right radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.324R | Nondisplaced transverse fracture of shaft of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.324S | Nondisplaced transverse fracture of shaft of right radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.325  | Nondisplaced transverse fracture of shaft of left radius  | Diagnosis     | ICD-10-CM |
| S52.325A | Nondisplaced transverse fracture of shaft of left radius, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.325B | Nondisplaced transverse fracture of shaft of left radius, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S52.325C | Nondisplaced transverse fracture of shaft of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S52.325D | Nondisplaced transverse fracture of shaft of left radius, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S52.325E | Nondisplaced transverse fracture of shaft of left radius, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S52.325F | Nondisplaced transverse fracture of shaft of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S52.325G | Nondisplaced transverse fracture of shaft of left radius, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S52.325H | Nondisplaced transverse fracture of shaft of left radius, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S52.325J | Nondisplaced transverse fracture of shaft of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S52.325K | Nondisplaced transverse fracture of shaft of left radius, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S52.325M | Nondisplaced transverse fracture of shaft of left radius, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S52.325N | Nondisplaced transverse fracture of shaft of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S52.325P | Nondisplaced transverse fracture of shaft of left radius, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S52.325Q | Nondisplaced transverse fracture of shaft of left radius, subsequent encounter for open fracture type I or II with malunion                     | Diagnosis     | ICD-10-CM |
| S52.325R | Nondisplaced transverse fracture of shaft of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion         | Diagnosis     | ICD-10-CM |
| S52.325S | Nondisplaced transverse fracture of shaft of left radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.326  | Nondisplaced transverse fracture of shaft of unspecified radius   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.326A | Nondisplaced transverse fracture of shaft of unspecified radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.326B | Nondisplaced transverse fracture of shaft of unspecified radius, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.326C | Nondisplaced transverse fracture of shaft of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.326D | Nondisplaced transverse fracture of shaft of unspecified radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.326E | Nondisplaced transverse fracture of shaft of unspecified radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.326F | Nondisplaced transverse fracture of shaft of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.326G | Nondisplaced transverse fracture of shaft of unspecified radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.326H | Nondisplaced transverse fracture of shaft of unspecified radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.326J | Nondisplaced transverse fracture of shaft of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.326K | Nondisplaced transverse fracture of shaft of unspecified radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.326M | Nondisplaced transverse fracture of shaft of unspecified radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.326N | Nondisplaced transverse fracture of shaft of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.326P | Nondisplaced transverse fracture of shaft of unspecified radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.326Q | Nondisplaced transverse fracture of shaft of unspecified radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.326R | Nondisplaced transverse fracture of shaft of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.326S | Nondisplaced transverse fracture of shaft of unspecified radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.33   | Oblique fracture of shaft of radius   | Diagnosis     | ICD-10-CM |
| S52.331  | Displaced oblique fracture of shaft of right radius   | Diagnosis     | ICD-10-CM |
| S52.331A | Displaced oblique fracture of shaft of right radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.331B | Displaced oblique fracture of shaft of right radius, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S52.331C | Displaced oblique fracture of shaft of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                                     | Diagnosis     | ICD-10-CM |
| S52.331D | Displaced oblique fracture of shaft of right radius, subsequent encounter for closed fracture with routine healing                                    | Diagnosis     | ICD-10-CM |
| S52.331E | Displaced oblique fracture of shaft of right radius, subsequent encounter for open fracture type I or II with routine healing                         | Diagnosis     | ICD-10-CM |
| S52.331F | Displaced oblique fracture of shaft of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing             | Diagnosis     | ICD-10-CM |
| S52.331G | Displaced oblique fracture of shaft of right radius, subsequent encounter for closed fracture with delayed healing                                    | Diagnosis     | ICD-10-CM |
| S52.331H | Displaced oblique fracture of shaft of right radius, subsequent encounter for open fracture type I or II with delayed healing                         | Diagnosis     | ICD-10-CM |
| S52.331J | Displaced oblique fracture of shaft of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing             | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.331K | Displaced oblique fracture of shaft of right radius, subsequent encounter for closed fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S52.331M | Displaced oblique fracture of shaft of right radius, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S52.331N | Displaced oblique fracture of shaft of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion       | Diagnosis     | ICD-10-CM |
| S52.331P | Displaced oblique fracture of shaft of right radius, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S52.331Q | Displaced oblique fracture of shaft of right radius, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S52.331R | Displaced oblique fracture of shaft of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S52.331S | Displaced oblique fracture of shaft of right radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.332  | Displaced oblique fracture of shaft of left radius   | Diagnosis     | ICD-10-CM |
| S52.332A | Displaced oblique fracture of shaft of left radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.332B | Displaced oblique fracture of shaft of left radius, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.332C | Displaced oblique fracture of shaft of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.332D | Displaced oblique fracture of shaft of left radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.332E | Displaced oblique fracture of shaft of left radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.332F | Displaced oblique fracture of shaft of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.332G | Displaced oblique fracture of shaft of left radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.332H | Displaced oblique fracture of shaft of left radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.332J | Displaced oblique fracture of shaft of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.332K | Displaced oblique fracture of shaft of left radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.332M | Displaced oblique fracture of shaft of left radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.332N | Displaced oblique fracture of shaft of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.332P | Displaced oblique fracture of shaft of left radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.332Q | Displaced oblique fracture of shaft of left radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.332R | Displaced oblique fracture of shaft of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.332S | Displaced oblique fracture of shaft of left radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.333  | Displaced oblique fracture of shaft of unspecified radius  | Diagnosis     | ICD-10-CM |
| S52.333A | Displaced oblique fracture of shaft of unspecified radius, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.333B | Displaced oblique fracture of shaft of unspecified radius, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.333C | Displaced oblique fracture of shaft of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.333D | Displaced oblique fracture of shaft of unspecified radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.333E | Displaced oblique fracture of shaft of unspecified radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.333F | Displaced oblique fracture of shaft of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.333G | Displaced oblique fracture of shaft of unspecified radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.333H | Displaced oblique fracture of shaft of unspecified radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.333J | Displaced oblique fracture of shaft of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.333K | Displaced oblique fracture of shaft of unspecified radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.333M | Displaced oblique fracture of shaft of unspecified radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.333N | Displaced oblique fracture of shaft of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.333P | Displaced oblique fracture of shaft of unspecified radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.333Q | Displaced oblique fracture of shaft of unspecified radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.333R | Displaced oblique fracture of shaft of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.333S | Displaced oblique fracture of shaft of unspecified radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.334  | Nondisplaced oblique fracture of shaft of right radius  | Diagnosis     | ICD-10-CM |
| S52.334A | Nondisplaced oblique fracture of shaft of right radius, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.334B | Nondisplaced oblique fracture of shaft of right radius, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.334C | Nondisplaced oblique fracture of shaft of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S52.334D | Nondisplaced oblique fracture of shaft of right radius, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S52.334E | Nondisplaced oblique fracture of shaft of right radius, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S52.334F | Nondisplaced oblique fracture of shaft of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S52.334G | Nondisplaced oblique fracture of shaft of right radius, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S52.334H | Nondisplaced oblique fracture of shaft of right radius, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S52.334J | Nondisplaced oblique fracture of shaft of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S52.334K | Nondisplaced oblique fracture of shaft of right radius, subsequent encounter for closed fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S52.334M | Nondisplaced oblique fracture of shaft of right radius, subsequent encounter for open fracture type I or II with nonunion                       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.334N | Nondisplaced oblique fracture of shaft of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion       | Diagnosis     | ICD-10-CM |
| S52.334P | Nondisplaced oblique fracture of shaft of right radius, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S52.334Q | Nondisplaced oblique fracture of shaft of right radius, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S52.334R | Nondisplaced oblique fracture of shaft of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S52.334S | Nondisplaced oblique fracture of shaft of right radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.335  | Nondisplaced oblique fracture of shaft of left radius   | Diagnosis     | ICD-10-CM |
| S52.335A | Nondisplaced oblique fracture of shaft of left radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.335B | Nondisplaced oblique fracture of shaft of left radius, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.335C | Nondisplaced oblique fracture of shaft of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.335D | Nondisplaced oblique fracture of shaft of left radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.335E | Nondisplaced oblique fracture of shaft of left radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.335F | Nondisplaced oblique fracture of shaft of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.335G | Nondisplaced oblique fracture of shaft of left radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.335H | Nondisplaced oblique fracture of shaft of left radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.335J | Nondisplaced oblique fracture of shaft of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.335K | Nondisplaced oblique fracture of shaft of left radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.335M | Nondisplaced oblique fracture of shaft of left radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.335N | Nondisplaced oblique fracture of shaft of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.335P | Nondisplaced oblique fracture of shaft of left radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.335Q | Nondisplaced oblique fracture of shaft of left radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.335R | Nondisplaced oblique fracture of shaft of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.335S | Nondisplaced oblique fracture of shaft of left radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.336  | Nondisplaced oblique fracture of shaft of unspecified radius  | Diagnosis     | ICD-10-CM |
| S52.336A | Nondisplaced oblique fracture of shaft of unspecified radius, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.336B | Nondisplaced oblique fracture of shaft of unspecified radius, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |
| S52.336C | Nondisplaced oblique fracture of shaft of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                  | Diagnosis     | ICD-10-CM |
| S52.336D | Nondisplaced oblique fracture of shaft of unspecified radius, subsequent encounter for closed fracture with routine healing                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.336E | Nondisplaced oblique fracture of shaft of unspecified radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.336F | Nondisplaced oblique fracture of shaft of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.336G | Nondisplaced oblique fracture of shaft of unspecified radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.336H | Nondisplaced oblique fracture of shaft of unspecified radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.336J | Nondisplaced oblique fracture of shaft of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.336K | Nondisplaced oblique fracture of shaft of unspecified radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.336M | Nondisplaced oblique fracture of shaft of unspecified radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.336N | Nondisplaced oblique fracture of shaft of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.336P | Nondisplaced oblique fracture of shaft of unspecified radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.336Q | Nondisplaced oblique fracture of shaft of unspecified radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.336R | Nondisplaced oblique fracture of shaft of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.336S | Nondisplaced oblique fracture of shaft of unspecified radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.34   | Spiral fracture of shaft of radius   | Diagnosis     | ICD-10-CM |
| S52.341  | Displaced spiral fracture of shaft of radius, right arm  | Diagnosis     | ICD-10-CM |
| S52.341A | Displaced spiral fracture of shaft of radius, right arm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.341B | Displaced spiral fracture of shaft of radius, right arm, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.341C | Displaced spiral fracture of shaft of radius, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                              | Diagnosis     | ICD-10-CM |
| S52.341D | Displaced spiral fracture of shaft of radius, right arm, subsequent encounter for closed fracture with routine healing                             | Diagnosis     | ICD-10-CM |
| S52.341E | Displaced spiral fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with routine healing                  | Diagnosis     | ICD-10-CM |
| S52.341F | Displaced spiral fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing      | Diagnosis     | ICD-10-CM |
| S52.341G | Displaced spiral fracture of shaft of radius, right arm, subsequent encounter for closed fracture with delayed healing                             | Diagnosis     | ICD-10-CM |
| S52.341H | Displaced spiral fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with delayed healing                  | Diagnosis     | ICD-10-CM |
| S52.341J | Displaced spiral fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing      | Diagnosis     | ICD-10-CM |
| S52.341K | Displaced spiral fracture of shaft of radius, right arm, subsequent encounter for closed fracture with nonunion                                    | Diagnosis     | ICD-10-CM |
| S52.341M | Displaced spiral fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with nonunion                         | Diagnosis     | ICD-10-CM |
| S52.341N | Displaced spiral fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion             | Diagnosis     | ICD-10-CM |
| S52.341P | Displaced spiral fracture of shaft of radius, right arm, subsequent encounter for closed fracture with malunion                                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.341Q | Displaced spiral fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with malunion                          | Diagnosis     | ICD-10-CM |
| S52.341R | Displaced spiral fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion              | Diagnosis     | ICD-10-CM |
| S52.341S | Displaced spiral fracture of shaft of radius, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S52.342  | Displaced spiral fracture of shaft of radius, left arm  | Diagnosis     | ICD-10-CM |
| S52.342A | Displaced spiral fracture of shaft of radius, left arm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.342B | Displaced spiral fracture of shaft of radius, left arm, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.342C | Displaced spiral fracture of shaft of radius, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S52.342D | Displaced spiral fracture of shaft of radius, left arm, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S52.342E | Displaced spiral fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S52.342F | Displaced spiral fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.342G | Displaced spiral fracture of shaft of radius, left arm, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.342H | Displaced spiral fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.342J | Displaced spiral fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.342K | Displaced spiral fracture of shaft of radius, left arm, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.342M | Displaced spiral fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.342N | Displaced spiral fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.342P | Displaced spiral fracture of shaft of radius, left arm, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.342Q | Displaced spiral fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.342R | Displaced spiral fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.342S | Displaced spiral fracture of shaft of radius, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S52.343  | Displaced spiral fracture of shaft of radius, unspecified arm   | Diagnosis     | ICD-10-CM |
| S52.343A | Displaced spiral fracture of shaft of radius, unspecified arm, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.343B | Displaced spiral fracture of shaft of radius, unspecified arm, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.343C | Displaced spiral fracture of shaft of radius, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.343D | Displaced spiral fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.343E | Displaced spiral fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.343F | Displaced spiral fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.343G | Displaced spiral fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.343H | Displaced spiral fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.343J | Displaced spiral fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.343K | Displaced spiral fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.343M | Displaced spiral fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.343N | Displaced spiral fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.343P | Displaced spiral fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.343Q | Displaced spiral fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.343R | Displaced spiral fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.343S | Displaced spiral fracture of shaft of radius, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S52.344  | Nondisplaced spiral fracture of shaft of radius, right arm  | Diagnosis     | ICD-10-CM |
| S52.344A | Nondisplaced spiral fracture of shaft of radius, right arm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.344B | Nondisplaced spiral fracture of shaft of radius, right arm, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.344C | Nondisplaced spiral fracture of shaft of radius, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S52.344D | Nondisplaced spiral fracture of shaft of radius, right arm, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S52.344E | Nondisplaced spiral fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S52.344F | Nondisplaced spiral fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S52.344G | Nondisplaced spiral fracture of shaft of radius, right arm, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S52.344H | Nondisplaced spiral fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S52.344J | Nondisplaced spiral fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S52.344K | Nondisplaced spiral fracture of shaft of radius, right arm, subsequent encounter for closed fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S52.344M | Nondisplaced spiral fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with nonunion                       | Diagnosis     | ICD-10-CM |
| S52.344N | Nondisplaced spiral fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion           | Diagnosis     | ICD-10-CM |
| S52.344P | Nondisplaced spiral fracture of shaft of radius, right arm, subsequent encounter for closed fracture with malunion                                  | Diagnosis     | ICD-10-CM |
| S52.344Q | Nondisplaced spiral fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with malunion                       | Diagnosis     | ICD-10-CM |
| S52.344R | Nondisplaced spiral fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion           | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.344S | Nondisplaced spiral fracture of shaft of radius, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S52.345  | Nondisplaced spiral fracture of shaft of radius, left arm  | Diagnosis     | ICD-10-CM |
| S52.345A | Nondisplaced spiral fracture of shaft of radius, left arm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.345B | Nondisplaced spiral fracture of shaft of radius, left arm, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.345C | Nondisplaced spiral fracture of shaft of radius, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S52.345D | Nondisplaced spiral fracture of shaft of radius, left arm, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S52.345E | Nondisplaced spiral fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S52.345F | Nondisplaced spiral fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.345G | Nondisplaced spiral fracture of shaft of radius, left arm, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.345H | Nondisplaced spiral fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.345J | Nondisplaced spiral fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.345K | Nondisplaced spiral fracture of shaft of radius, left arm, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.345M | Nondisplaced spiral fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.345N | Nondisplaced spiral fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.345P | Nondisplaced spiral fracture of shaft of radius, left arm, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.345Q | Nondisplaced spiral fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.345R | Nondisplaced spiral fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.345S | Nondisplaced spiral fracture of shaft of radius, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S52.346  | Nondisplaced spiral fracture of shaft of radius, unspecified arm   | Diagnosis     | ICD-10-CM |
| S52.346A | Nondisplaced spiral fracture of shaft of radius, unspecified arm, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.346B | Nondisplaced spiral fracture of shaft of radius, unspecified arm, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.346C | Nondisplaced spiral fracture of shaft of radius, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.346D | Nondisplaced spiral fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.346E | Nondisplaced spiral fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.346F | Nondisplaced spiral fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.346G | Nondisplaced spiral fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.346H | Nondisplaced spiral fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.346J | Nondisplaced spiral fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.346K | Nondisplaced spiral fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.346M | Nondisplaced spiral fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.346N | Nondisplaced spiral fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.346P | Nondisplaced spiral fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.346Q | Nondisplaced spiral fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.346R | Nondisplaced spiral fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.346S | Nondisplaced spiral fracture of shaft of radius, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S52.35   | Comminuted fracture of shaft of radius   | Diagnosis     | ICD-10-CM |
| S52.351  | Displaced comminuted fracture of shaft of radius, right arm  | Diagnosis     | ICD-10-CM |
| S52.351A | Displaced comminuted fracture of shaft of radius, right arm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.351B | Displaced comminuted fracture of shaft of radius, right arm, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.351C | Displaced comminuted fracture of shaft of radius, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                              | Diagnosis     | ICD-10-CM |
| S52.351D | Displaced comminuted fracture of shaft of radius, right arm, subsequent encounter for closed fracture with routine healing                             | Diagnosis     | ICD-10-CM |
| S52.351E | Displaced comminuted fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with routine healing                  | Diagnosis     | ICD-10-CM |
| S52.351F | Displaced comminuted fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing      | Diagnosis     | ICD-10-CM |
| S52.351G | Displaced comminuted fracture of shaft of radius, right arm, subsequent encounter for closed fracture with delayed healing                             | Diagnosis     | ICD-10-CM |
| S52.351H | Displaced comminuted fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with delayed healing                  | Diagnosis     | ICD-10-CM |
| S52.351J | Displaced comminuted fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing      | Diagnosis     | ICD-10-CM |
| S52.351K | Displaced comminuted fracture of shaft of radius, right arm, subsequent encounter for closed fracture with nonunion                                    | Diagnosis     | ICD-10-CM |
| S52.351M | Displaced comminuted fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with nonunion                         | Diagnosis     | ICD-10-CM |
| S52.351N | Displaced comminuted fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion             | Diagnosis     | ICD-10-CM |
| S52.351P | Displaced comminuted fracture of shaft of radius, right arm, subsequent encounter for closed fracture with malunion                                    | Diagnosis     | ICD-10-CM |
| S52.351Q | Displaced comminuted fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with malunion                         | Diagnosis     | ICD-10-CM |
| S52.351R | Displaced comminuted fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion             | Diagnosis     | ICD-10-CM |
| S52.351S | Displaced comminuted fracture of shaft of radius, right arm, sequela   | Diagnosis     | ICD-10-CM |
| S52.352  | Displaced comminuted fracture of shaft of radius, left arm   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.352A | Displaced comminuted fracture of shaft of radius, left arm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.352B | Displaced comminuted fracture of shaft of radius, left arm, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.352C | Displaced comminuted fracture of shaft of radius, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S52.352D | Displaced comminuted fracture of shaft of radius, left arm, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S52.352E | Displaced comminuted fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S52.352F | Displaced comminuted fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.352G | Displaced comminuted fracture of shaft of radius, left arm, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.352H | Displaced comminuted fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.352J | Displaced comminuted fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.352K | Displaced comminuted fracture of shaft of radius, left arm, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.352M | Displaced comminuted fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.352N | Displaced comminuted fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.352P | Displaced comminuted fracture of shaft of radius, left arm, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.352Q | Displaced comminuted fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.352R | Displaced comminuted fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.352S | Displaced comminuted fracture of shaft of radius, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S52.353  | Displaced comminuted fracture of shaft of radius, unspecified arm   | Diagnosis     | ICD-10-CM |
| S52.353A | Displaced comminuted fracture of shaft of radius, unspecified arm, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.353B | Displaced comminuted fracture of shaft of radius, unspecified arm, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.353C | Displaced comminuted fracture of shaft of radius, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.353D | Displaced comminuted fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.353E | Displaced comminuted fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.353F | Displaced comminuted fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.353G | Displaced comminuted fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.353H | Displaced comminuted fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.353J | Displaced comminuted fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.353K | Displaced comminuted fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with nonunion                          | Diagnosis     | ICD-10-CM |
| S52.353M | Displaced comminuted fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with nonunion               | Diagnosis     | ICD-10-CM |
| S52.353N | Displaced comminuted fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion     | Diagnosis     | ICD-10-CM |
| S52.353P | Displaced comminuted fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with malunion                          | Diagnosis     | ICD-10-CM |
| S52.353Q | Displaced comminuted fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with malunion               | Diagnosis     | ICD-10-CM |
| S52.353R | Displaced comminuted fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion     | Diagnosis     | ICD-10-CM |
| S52.353S | Displaced comminuted fracture of shaft of radius, unspecified arm, sequela   | Diagnosis     | ICD-10-CM |
| S52.354  | Nondisplaced comminuted fracture of shaft of radius, right arm   | Diagnosis     | ICD-10-CM |
| S52.354A | Nondisplaced comminuted fracture of shaft of radius, right arm, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.354B | Nondisplaced comminuted fracture of shaft of radius, right arm, initial encounter for open fracture type I or II                                   | Diagnosis     | ICD-10-CM |
| S52.354C | Nondisplaced comminuted fracture of shaft of radius, right arm, initial encounter for open fracture type IIIA, IIB, or IIC                         | Diagnosis     | ICD-10-CM |
| S52.354D | Nondisplaced comminuted fracture of shaft of radius, right arm, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S52.354E | Nondisplaced comminuted fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S52.354F | Nondisplaced comminuted fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.354G | Nondisplaced comminuted fracture of shaft of radius, right arm, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S52.354H | Nondisplaced comminuted fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S52.354J | Nondisplaced comminuted fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.354K | Nondisplaced comminuted fracture of shaft of radius, right arm, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S52.354M | Nondisplaced comminuted fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S52.354N | Nondisplaced comminuted fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.354P | Nondisplaced comminuted fracture of shaft of radius, right arm, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S52.354Q | Nondisplaced comminuted fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S52.354R | Nondisplaced comminuted fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.354S | Nondisplaced comminuted fracture of shaft of radius, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S52.355  | Nondisplaced comminuted fracture of shaft of radius, left arm  | Diagnosis     | ICD-10-CM |
| S52.355A | Nondisplaced comminuted fracture of shaft of radius, left arm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.355B | Nondisplaced comminuted fracture of shaft of radius, left arm, initial encounter for open fracture type I or II                                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.355C | Nondisplaced comminuted fracture of shaft of radius, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S52.355D | Nondisplaced comminuted fracture of shaft of radius, left arm, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S52.355E | Nondisplaced comminuted fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S52.355F | Nondisplaced comminuted fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.355G | Nondisplaced comminuted fracture of shaft of radius, left arm, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.355H | Nondisplaced comminuted fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.355J | Nondisplaced comminuted fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.355K | Nondisplaced comminuted fracture of shaft of radius, left arm, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.355M | Nondisplaced comminuted fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.355N | Nondisplaced comminuted fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.355P | Nondisplaced comminuted fracture of shaft of radius, left arm, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.355Q | Nondisplaced comminuted fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.355R | Nondisplaced comminuted fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.355S | Nondisplaced comminuted fracture of shaft of radius, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S52.356  | Nondisplaced comminuted fracture of shaft of radius, unspecified arm   | Diagnosis     | ICD-10-CM |
| S52.356A | Nondisplaced comminuted fracture of shaft of radius, unspecified arm, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.356B | Nondisplaced comminuted fracture of shaft of radius, unspecified arm, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.356C | Nondisplaced comminuted fracture of shaft of radius, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.356D | Nondisplaced comminuted fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.356E | Nondisplaced comminuted fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.356F | Nondisplaced comminuted fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.356G | Nondisplaced comminuted fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.356H | Nondisplaced comminuted fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.356J | Nondisplaced comminuted fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.356K | Nondisplaced comminuted fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.356M | Nondisplaced comminuted fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.356N | Nondisplaced comminuted fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion | Diagnosis     | ICD-10-CM |
| S52.356P | Nondisplaced comminuted fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with malunion                        | Diagnosis     | ICD-10-CM |
| S52.356Q | Nondisplaced comminuted fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with malunion             | Diagnosis     | ICD-10-CM |
| S52.356R | Nondisplaced comminuted fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion | Diagnosis     | ICD-10-CM |
| S52.356S | Nondisplaced comminuted fracture of shaft of radius, unspecified arm, sequela   | Diagnosis     | ICD-10-CM |
| S52.36   | Segmental fracture of shaft of radius   | Diagnosis     | ICD-10-CM |
| S52.361  | Displaced segmental fracture of shaft of radius, right arm  | Diagnosis     | ICD-10-CM |
| S52.361A | Displaced segmental fracture of shaft of radius, right arm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.361B | Displaced segmental fracture of shaft of radius, right arm, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.361C | Displaced segmental fracture of shaft of radius, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S52.361D | Displaced segmental fracture of shaft of radius, right arm, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S52.361E | Displaced segmental fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S52.361F | Displaced segmental fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S52.361G | Displaced segmental fracture of shaft of radius, right arm, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S52.361H | Displaced segmental fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S52.361J | Displaced segmental fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S52.361K | Displaced segmental fracture of shaft of radius, right arm, subsequent encounter for closed fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S52.361M | Displaced segmental fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with nonunion                       | Diagnosis     | ICD-10-CM |
| S52.361N | Displaced segmental fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion           | Diagnosis     | ICD-10-CM |
| S52.361P | Displaced segmental fracture of shaft of radius, right arm, subsequent encounter for closed fracture with malunion                                  | Diagnosis     | ICD-10-CM |
| S52.361Q | Displaced segmental fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with malunion                       | Diagnosis     | ICD-10-CM |
| S52.361R | Displaced segmental fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion           | Diagnosis     | ICD-10-CM |
| S52.361S | Displaced segmental fracture of shaft of radius, right arm, sequela   | Diagnosis     | ICD-10-CM |
| S52.362  | Displaced segmental fracture of shaft of radius, left arm   | Diagnosis     | ICD-10-CM |
| S52.362A | Displaced segmental fracture of shaft of radius, left arm, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.362B | Displaced segmental fracture of shaft of radius, left arm, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S52.362C | Displaced segmental fracture of shaft of radius, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                             | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.362D | Displaced segmental fracture of shaft of radius, left arm, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S52.362E | Displaced segmental fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S52.362F | Displaced segmental fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.362G | Displaced segmental fracture of shaft of radius, left arm, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.362H | Displaced segmental fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.362J | Displaced segmental fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.362K | Displaced segmental fracture of shaft of radius, left arm, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.362M | Displaced segmental fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.362N | Displaced segmental fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.362P | Displaced segmental fracture of shaft of radius, left arm, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.362Q | Displaced segmental fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.362R | Displaced segmental fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.362S | Displaced segmental fracture of shaft of radius, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S52.363  | Displaced segmental fracture of shaft of radius, unspecified arm   | Diagnosis     | ICD-10-CM |
| S52.363A | Displaced segmental fracture of shaft of radius, unspecified arm, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.363B | Displaced segmental fracture of shaft of radius, unspecified arm, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.363C | Displaced segmental fracture of shaft of radius, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.363D | Displaced segmental fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.363E | Displaced segmental fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.363F | Displaced segmental fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.363G | Displaced segmental fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.363H | Displaced segmental fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.363J | Displaced segmental fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.363K | Displaced segmental fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.363M | Displaced segmental fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.363N | Displaced segmental fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.363P | Displaced segmental fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with malunion                            | Diagnosis     | ICD-10-CM |
| S52.363Q | Displaced segmental fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with malunion                 | Diagnosis     | ICD-10-CM |
| S52.363R | Displaced segmental fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion     | Diagnosis     | ICD-10-CM |
| S52.363S | Displaced segmental fracture of shaft of radius, unspecified arm, sequela   | Diagnosis     | ICD-10-CM |
| S52.364  | Nondisplaced segmental fracture of shaft of radius, right arm   | Diagnosis     | ICD-10-CM |
| S52.364A | Nondisplaced segmental fracture of shaft of radius, right arm, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.364B | Nondisplaced segmental fracture of shaft of radius, right arm, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.364C | Nondisplaced segmental fracture of shaft of radius, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.364D | Nondisplaced segmental fracture of shaft of radius, right arm, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.364E | Nondisplaced segmental fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.364F | Nondisplaced segmental fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.364G | Nondisplaced segmental fracture of shaft of radius, right arm, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.364H | Nondisplaced segmental fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.364J | Nondisplaced segmental fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.364K | Nondisplaced segmental fracture of shaft of radius, right arm, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.364M | Nondisplaced segmental fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.364N | Nondisplaced segmental fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.364P | Nondisplaced segmental fracture of shaft of radius, right arm, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.364Q | Nondisplaced segmental fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.364R | Nondisplaced segmental fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.364S | Nondisplaced segmental fracture of shaft of radius, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S52.365  | Nondisplaced segmental fracture of shaft of radius, left arm  | Diagnosis     | ICD-10-CM |
| S52.365A | Nondisplaced segmental fracture of shaft of radius, left arm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.365B | Nondisplaced segmental fracture of shaft of radius, left arm, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S52.365C | Nondisplaced segmental fracture of shaft of radius, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S52.365D | Nondisplaced segmental fracture of shaft of radius, left arm, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S52.365E | Nondisplaced segmental fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.365F | Nondisplaced segmental fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.365G | Nondisplaced segmental fracture of shaft of radius, left arm, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.365H | Nondisplaced segmental fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.365J | Nondisplaced segmental fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.365K | Nondisplaced segmental fracture of shaft of radius, left arm, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.365M | Nondisplaced segmental fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.365N | Nondisplaced segmental fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.365P | Nondisplaced segmental fracture of shaft of radius, left arm, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.365Q | Nondisplaced segmental fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.365R | Nondisplaced segmental fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.365S | Nondisplaced segmental fracture of shaft of radius, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S52.366  | Nondisplaced segmental fracture of shaft of radius, unspecified arm   | Diagnosis     | ICD-10-CM |
| S52.366A | Nondisplaced segmental fracture of shaft of radius, unspecified arm, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.366B | Nondisplaced segmental fracture of shaft of radius, unspecified arm, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.366C | Nondisplaced segmental fracture of shaft of radius, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.366D | Nondisplaced segmental fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.366E | Nondisplaced segmental fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.366F | Nondisplaced segmental fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.366G | Nondisplaced segmental fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.366H | Nondisplaced segmental fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.366J | Nondisplaced segmental fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.366K | Nondisplaced segmental fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.366M | Nondisplaced segmental fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.366N | Nondisplaced segmental fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.366P | Nondisplaced segmental fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.366Q | Nondisplaced segmental fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.366R | Nondisplaced segmental fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion | Diagnosis     | ICD-10-CM |
| S52.366S | Nondisplaced segmental fracture of shaft of radius, unspecified arm, sequela   | Diagnosis     | ICD-10-CM |
| S52.37   | Galeazzi's fracture  | Diagnosis     | ICD-10-CM |
| S52.371  | Galeazzi's fracture of right radius  | Diagnosis     | ICD-10-CM |
| S52.371A | Galeazzi's fracture of right radius, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.371B | Galeazzi's fracture of right radius, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.371C | Galeazzi's fracture of right radius, initial encounter for open fracture type IIIA, IIB, or IIC  | Diagnosis     | ICD-10-CM |
| S52.371D | Galeazzi's fracture of right radius, subsequent encounter for closed fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S52.371E | Galeazzi's fracture of right radius, subsequent encounter for open fracture type I or II with routine healing                                    | Diagnosis     | ICD-10-CM |
| S52.371F | Galeazzi's fracture of right radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing                          | Diagnosis     | ICD-10-CM |
| S52.371G | Galeazzi's fracture of right radius, subsequent encounter for closed fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S52.371H | Galeazzi's fracture of right radius, subsequent encounter for open fracture type I or II with delayed healing                                    | Diagnosis     | ICD-10-CM |
| S52.371J | Galeazzi's fracture of right radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing                          | Diagnosis     | ICD-10-CM |
| S52.371K | Galeazzi's fracture of right radius, subsequent encounter for closed fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S52.371M | Galeazzi's fracture of right radius, subsequent encounter for open fracture type I or II with nonunion   | Diagnosis     | ICD-10-CM |
| S52.371N | Galeazzi's fracture of right radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion                                 | Diagnosis     | ICD-10-CM |
| S52.371P | Galeazzi's fracture of right radius, subsequent encounter for closed fracture with malunion  | Diagnosis     | ICD-10-CM |
| S52.371Q | Galeazzi's fracture of right radius, subsequent encounter for open fracture type I or II with malunion   | Diagnosis     | ICD-10-CM |
| S52.371R | Galeazzi's fracture of right radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion                                 | Diagnosis     | ICD-10-CM |
| S52.371S | Galeazzi's fracture of right radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.372  | Galeazzi's fracture of left radius   | Diagnosis     | ICD-10-CM |
| S52.372A | Galeazzi's fracture of left radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.372B | Galeazzi's fracture of left radius, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S52.372C | Galeazzi's fracture of left radius, initial encounter for open fracture type IIIA, IIB, or IIC   | Diagnosis     | ICD-10-CM |
| S52.372D | Galeazzi's fracture of left radius, subsequent encounter for closed fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S52.372E | Galeazzi's fracture of left radius, subsequent encounter for open fracture type I or II with routine healing                                     | Diagnosis     | ICD-10-CM |
| S52.372F | Galeazzi's fracture of left radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing                           | Diagnosis     | ICD-10-CM |
| S52.372G | Galeazzi's fracture of left radius, subsequent encounter for closed fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S52.372H | Galeazzi's fracture of left radius, subsequent encounter for open fracture type I or II with delayed healing                                     | Diagnosis     | ICD-10-CM |
| S52.372J | Galeazzi's fracture of left radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing                           | Diagnosis     | ICD-10-CM |
| S52.372K | Galeazzi's fracture of left radius, subsequent encounter for closed fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S52.372M | Galeazzi's fracture of left radius, subsequent encounter for open fracture type I or II with nonunion  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.372N | Galeazzi's fracture of left radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.372P | Galeazzi's fracture of left radius, subsequent encounter for closed fracture with malunion                                    | Diagnosis     | ICD-10-CM |
| S52.372Q | Galeazzi's fracture of left radius, subsequent encounter for open fracture type I or II with malunion                         | Diagnosis     | ICD-10-CM |
| S52.372R | Galeazzi's fracture of left radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.372S | Galeazzi's fracture of left radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.379  | Galeazzi's fracture of unspecified radius   | Diagnosis     | ICD-10-CM |
| S52.379A | Galeazzi's fracture of unspecified radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.379B | Galeazzi's fracture of unspecified radius, initial encounter for open fracture type I or II                                   | Diagnosis     | ICD-10-CM |
| S52.379C | Galeazzi's fracture of unspecified radius, initial encounter for open fracture type IIIA, IIB, or IIC                         | Diagnosis     | ICD-10-CM |
| S52.379D | Galeazzi's fracture of unspecified radius, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S52.379E | Galeazzi's fracture of unspecified radius, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S52.379F | Galeazzi's fracture of unspecified radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.379G | Galeazzi's fracture of unspecified radius, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S52.379H | Galeazzi's fracture of unspecified radius, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S52.379J | Galeazzi's fracture of unspecified radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.379K | Galeazzi's fracture of unspecified radius, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S52.379M | Galeazzi's fracture of unspecified radius, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S52.379N | Galeazzi's fracture of unspecified radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.379P | Galeazzi's fracture of unspecified radius, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S52.379Q | Galeazzi's fracture of unspecified radius, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S52.379R | Galeazzi's fracture of unspecified radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.379S | Galeazzi's fracture of unspecified radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.38   | Bent bone of radius   | Diagnosis     | ICD-10-CM |
| S52.381  | Bent bone of right radius   | Diagnosis     | ICD-10-CM |
| S52.381A | Bent bone of right radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.381B | Bent bone of right radius, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S52.381C | Bent bone of right radius, initial encounter for open fracture type IIIA, IIB, or IIC   | Diagnosis     | ICD-10-CM |
| S52.381D | Bent bone of right radius, subsequent encounter for closed fracture with routine healing                                      | Diagnosis     | ICD-10-CM |
| S52.381E | Bent bone of right radius, subsequent encounter for open fracture type I or II with routine healing                           | Diagnosis     | ICD-10-CM |
| S52.381F | Bent bone of right radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing                 | Diagnosis     | ICD-10-CM |
| S52.381G | Bent bone of right radius, subsequent encounter for closed fracture with delayed healing                                      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.381H | Bent bone of right radius, subsequent encounter for open fracture type I or II with delayed healing                 | Diagnosis     | ICD-10-CM |
| S52.381J | Bent bone of right radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing       | Diagnosis     | ICD-10-CM |
| S52.381K | Bent bone of right radius, subsequent encounter for closed fracture with nonunion                                   | Diagnosis     | ICD-10-CM |
| S52.381M | Bent bone of right radius, subsequent encounter for open fracture type I or II with nonunion                        | Diagnosis     | ICD-10-CM |
| S52.381N | Bent bone of right radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion              | Diagnosis     | ICD-10-CM |
| S52.381P | Bent bone of right radius, subsequent encounter for closed fracture with malunion                                   | Diagnosis     | ICD-10-CM |
| S52.381Q | Bent bone of right radius, subsequent encounter for open fracture type I or II with malunion                        | Diagnosis     | ICD-10-CM |
| S52.381R | Bent bone of right radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion              | Diagnosis     | ICD-10-CM |
| S52.381S | Bent bone of right radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.382  | Bent bone of left radius  | Diagnosis     | ICD-10-CM |
| S52.382A | Bent bone of left radius, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.382B | Bent bone of left radius, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.382C | Bent bone of left radius, initial encounter for open fracture type IIIA, IIB, or IIC                                | Diagnosis     | ICD-10-CM |
| S52.382D | Bent bone of left radius, subsequent encounter for closed fracture with routine healing                             | Diagnosis     | ICD-10-CM |
| S52.382E | Bent bone of left radius, subsequent encounter for open fracture type I or II with routine healing                  | Diagnosis     | ICD-10-CM |
| S52.382F | Bent bone of left radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.382G | Bent bone of left radius, subsequent encounter for closed fracture with delayed healing                             | Diagnosis     | ICD-10-CM |
| S52.382H | Bent bone of left radius, subsequent encounter for open fracture type I or II with delayed healing                  | Diagnosis     | ICD-10-CM |
| S52.382J | Bent bone of left radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.382K | Bent bone of left radius, subsequent encounter for closed fracture with nonunion                                    | Diagnosis     | ICD-10-CM |
| S52.382M | Bent bone of left radius, subsequent encounter for open fracture type I or II with nonunion                         | Diagnosis     | ICD-10-CM |
| S52.382N | Bent bone of left radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.382P | Bent bone of left radius, subsequent encounter for closed fracture with malunion                                    | Diagnosis     | ICD-10-CM |
| S52.382Q | Bent bone of left radius, subsequent encounter for open fracture type I or II with malunion                         | Diagnosis     | ICD-10-CM |
| S52.382R | Bent bone of left radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.382S | Bent bone of left radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.389  | Bent bone of unspecified radius   | Diagnosis     | ICD-10-CM |
| S52.389A | Bent bone of unspecified radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.389B | Bent bone of unspecified radius, initial encounter for open fracture type I or II                                   | Diagnosis     | ICD-10-CM |
| S52.389C | Bent bone of unspecified radius, initial encounter for open fracture type IIIA, IIB, or IIC                         | Diagnosis     | ICD-10-CM |
| S52.389D | Bent bone of unspecified radius, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S52.389E | Bent bone of unspecified radius, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S52.389F | Bent bone of unspecified radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.389G | Bent bone of unspecified radius, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S52.389H | Bent bone of unspecified radius, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.389J | Bent bone of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing              | Diagnosis     | ICD-10-CM |
| S52.389K | Bent bone of unspecified radius, subsequent encounter for closed fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S52.389M | Bent bone of unspecified radius, subsequent encounter for open fracture type I or II with nonunion                                 | Diagnosis     | ICD-10-CM |
| S52.389N | Bent bone of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion                     | Diagnosis     | ICD-10-CM |
| S52.389P | Bent bone of unspecified radius, subsequent encounter for closed fracture with malunion  | Diagnosis     | ICD-10-CM |
| S52.389Q | Bent bone of unspecified radius, subsequent encounter for open fracture type I or II with malunion                                 | Diagnosis     | ICD-10-CM |
| S52.389R | Bent bone of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion                     | Diagnosis     | ICD-10-CM |
| S52.389S | Bent bone of unspecified radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.39   | Other fracture of shaft of radius  | Diagnosis     | ICD-10-CM |
| S52.391  | Other fracture of shaft of radius, right arm   | Diagnosis     | ICD-10-CM |
| S52.391A | Other fracture of shaft of radius, right arm, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.391B | Other fracture of shaft of radius, right arm, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.391C | Other fracture of shaft of radius, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.391D | Other fracture of shaft of radius, right arm, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.391E | Other fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.391F | Other fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.391G | Other fracture of shaft of radius, right arm, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.391H | Other fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.391J | Other fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.391K | Other fracture of shaft of radius, right arm, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.391M | Other fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.391N | Other fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.391P | Other fracture of shaft of radius, right arm, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.391Q | Other fracture of shaft of radius, right arm, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.391R | Other fracture of shaft of radius, right arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.391S | Other fracture of shaft of radius, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S52.392  | Other fracture of shaft of radius, left arm  | Diagnosis     | ICD-10-CM |
| S52.392A | Other fracture of shaft of radius, left arm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.392B | Other fracture of shaft of radius, left arm, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S52.392C | Other fracture of shaft of radius, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.392D | Other fracture of shaft of radius, left arm, subsequent encounter for closed fracture with routine healing                             | Diagnosis     | ICD-10-CM |
| S52.392E | Other fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with routine healing                  | Diagnosis     | ICD-10-CM |
| S52.392F | Other fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.392G | Other fracture of shaft of radius, left arm, subsequent encounter for closed fracture with delayed healing                             | Diagnosis     | ICD-10-CM |
| S52.392H | Other fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with delayed healing                  | Diagnosis     | ICD-10-CM |
| S52.392J | Other fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.392K | Other fracture of shaft of radius, left arm, subsequent encounter for closed fracture with nonunion                                    | Diagnosis     | ICD-10-CM |
| S52.392M | Other fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with nonunion                         | Diagnosis     | ICD-10-CM |
| S52.392N | Other fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.392P | Other fracture of shaft of radius, left arm, subsequent encounter for closed fracture with malunion                                    | Diagnosis     | ICD-10-CM |
| S52.392Q | Other fracture of shaft of radius, left arm, subsequent encounter for open fracture type I or II with malunion                         | Diagnosis     | ICD-10-CM |
| S52.392R | Other fracture of shaft of radius, left arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.392S | Other fracture of shaft of radius, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S52.399  | Other fracture of shaft of radius, unspecified arm   | Diagnosis     | ICD-10-CM |
| S52.399A | Other fracture of shaft of radius, unspecified arm, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.399B | Other fracture of shaft of radius, unspecified arm, initial encounter for open fracture type I or II                                   | Diagnosis     | ICD-10-CM |
| S52.399C | Other fracture of shaft of radius, unspecified arm, initial encounter for open fracture type IIIA, IIB, or IIC                         | Diagnosis     | ICD-10-CM |
| S52.399D | Other fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S52.399E | Other fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S52.399F | Other fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.399G | Other fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S52.399H | Other fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S52.399J | Other fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.399K | Other fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S52.399M | Other fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S52.399N | Other fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.399P | Other fracture of shaft of radius, unspecified arm, subsequent encounter for closed fracture with malunion                                  | Diagnosis     | ICD-10-CM |
| S52.399Q | Other fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type I or II with malunion                       | Diagnosis     | ICD-10-CM |
| S52.399R | Other fracture of shaft of radius, unspecified arm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion           | Diagnosis     | ICD-10-CM |
| S52.399S | Other fracture of shaft of radius, unspecified arm, sequela   | Diagnosis     | ICD-10-CM |
| S52.5    | Fracture of lower end of radius   | Diagnosis     | ICD-10-CM |
| S52.50   | Unspecified fracture of the lower end of radius   | Diagnosis     | ICD-10-CM |
| S52.501  | Unspecified fracture of the lower end of right radius   | Diagnosis     | ICD-10-CM |
| S52.501A | Unspecified fracture of the lower end of right radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.501B | Unspecified fracture of the lower end of right radius, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.501C | Unspecified fracture of the lower end of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.501D | Unspecified fracture of the lower end of right radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.501E | Unspecified fracture of the lower end of right radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.501F | Unspecified fracture of the lower end of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.501G | Unspecified fracture of the lower end of right radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.501H | Unspecified fracture of the lower end of right radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.501J | Unspecified fracture of the lower end of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.501K | Unspecified fracture of the lower end of right radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.501M | Unspecified fracture of the lower end of right radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.501N | Unspecified fracture of the lower end of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.501P | Unspecified fracture of the lower end of right radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.501Q | Unspecified fracture of the lower end of right radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.501R | Unspecified fracture of the lower end of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.501S | Unspecified fracture of the lower end of right radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.502  | Unspecified fracture of the lower end of left radius  | Diagnosis     | ICD-10-CM |
| S52.502A | Unspecified fracture of the lower end of left radius, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.502B | Unspecified fracture of the lower end of left radius, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S52.502C | Unspecified fracture of the lower end of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S52.502D | Unspecified fracture of the lower end of left radius, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S52.502E | Unspecified fracture of the lower end of left radius, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.502F | Unspecified fracture of the lower end of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.502G | Unspecified fracture of the lower end of left radius, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.502H | Unspecified fracture of the lower end of left radius, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.502J | Unspecified fracture of the lower end of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.502K | Unspecified fracture of the lower end of left radius, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.502M | Unspecified fracture of the lower end of left radius, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.502N | Unspecified fracture of the lower end of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.502P | Unspecified fracture of the lower end of left radius, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.502Q | Unspecified fracture of the lower end of left radius, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.502R | Unspecified fracture of the lower end of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.502S | Unspecified fracture of the lower end of left radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.509  | Unspecified fracture of the lower end of unspecified radius   | Diagnosis     | ICD-10-CM |
| S52.509A | Unspecified fracture of the lower end of unspecified radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.509B | Unspecified fracture of the lower end of unspecified radius, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.509C | Unspecified fracture of the lower end of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.509D | Unspecified fracture of the lower end of unspecified radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.509E | Unspecified fracture of the lower end of unspecified radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.509F | Unspecified fracture of the lower end of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.509G | Unspecified fracture of the lower end of unspecified radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.509H | Unspecified fracture of the lower end of unspecified radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.509J | Unspecified fracture of the lower end of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.509K | Unspecified fracture of the lower end of unspecified radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.509M | Unspecified fracture of the lower end of unspecified radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.509N | Unspecified fracture of the lower end of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.509P | Unspecified fracture of the lower end of unspecified radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.509Q | Unspecified fracture of the lower end of unspecified radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.509R | Unspecified fracture of the lower end of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion | Diagnosis     | ICD-10-CM |
| S52.509S | Unspecified fracture of the lower end of unspecified radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.51   | Fracture of radial styloid process   | Diagnosis     | ICD-10-CM |
| S52.511  | Displaced fracture of right radial styloid process   | Diagnosis     | ICD-10-CM |
| S52.511A | Displaced fracture of right radial styloid process, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.511B | Displaced fracture of right radial styloid process, initial encounter for open fracture type I or II                                       | Diagnosis     | ICD-10-CM |
| S52.511C | Displaced fracture of right radial styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC                           | Diagnosis     | ICD-10-CM |
| S52.511D | Displaced fracture of right radial styloid process, subsequent encounter for closed fracture with routine healing                          | Diagnosis     | ICD-10-CM |
| S52.511E | Displaced fracture of right radial styloid process, subsequent encounter for open fracture type I or II with routine healing               | Diagnosis     | ICD-10-CM |
| S52.511F | Displaced fracture of right radial styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing   | Diagnosis     | ICD-10-CM |
| S52.511G | Displaced fracture of right radial styloid process, subsequent encounter for closed fracture with delayed healing                          | Diagnosis     | ICD-10-CM |
| S52.511H | Displaced fracture of right radial styloid process, subsequent encounter for open fracture type I or II with delayed healing               | Diagnosis     | ICD-10-CM |
| S52.511J | Displaced fracture of right radial styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing   | Diagnosis     | ICD-10-CM |
| S52.511K | Displaced fracture of right radial styloid process, subsequent encounter for closed fracture with nonunion                                 | Diagnosis     | ICD-10-CM |
| S52.511M | Displaced fracture of right radial styloid process, subsequent encounter for open fracture type I or II with nonunion                      | Diagnosis     | ICD-10-CM |
| S52.511N | Displaced fracture of right radial styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion          | Diagnosis     | ICD-10-CM |
| S52.511P | Displaced fracture of right radial styloid process, subsequent encounter for closed fracture with malunion                                 | Diagnosis     | ICD-10-CM |
| S52.511Q | Displaced fracture of right radial styloid process, subsequent encounter for open fracture type I or II with malunion                      | Diagnosis     | ICD-10-CM |
| S52.511R | Displaced fracture of right radial styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion          | Diagnosis     | ICD-10-CM |
| S52.511S | Displaced fracture of right radial styloid process, sequela  | Diagnosis     | ICD-10-CM |
| S52.512  | Displaced fracture of left radial styloid process  | Diagnosis     | ICD-10-CM |
| S52.512A | Displaced fracture of left radial styloid process, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.512B | Displaced fracture of left radial styloid process, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.512C | Displaced fracture of left radial styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S52.512D | Displaced fracture of left radial styloid process, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S52.512E | Displaced fracture of left radial styloid process, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S52.512F | Displaced fracture of left radial styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S52.512G | Displaced fracture of left radial styloid process, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.512H | Displaced fracture of left radial styloid process, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.512J | Displaced fracture of left radial styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.512K | Displaced fracture of left radial styloid process, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.512M | Displaced fracture of left radial styloid process, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.512N | Displaced fracture of left radial styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.512P | Displaced fracture of left radial styloid process, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.512Q | Displaced fracture of left radial styloid process, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.512R | Displaced fracture of left radial styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.512S | Displaced fracture of left radial styloid process, sequela   | Diagnosis     | ICD-10-CM |
| S52.513  | Displaced fracture of unspecified radial styloid process   | Diagnosis     | ICD-10-CM |
| S52.513A | Displaced fracture of unspecified radial styloid process, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.513B | Displaced fracture of unspecified radial styloid process, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.513C | Displaced fracture of unspecified radial styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.513D | Displaced fracture of unspecified radial styloid process, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.513E | Displaced fracture of unspecified radial styloid process, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.513F | Displaced fracture of unspecified radial styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.513G | Displaced fracture of unspecified radial styloid process, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.513H | Displaced fracture of unspecified radial styloid process, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.513J | Displaced fracture of unspecified radial styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.513K | Displaced fracture of unspecified radial styloid process, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.513M | Displaced fracture of unspecified radial styloid process, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.513N | Displaced fracture of unspecified radial styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.513P | Displaced fracture of unspecified radial styloid process, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.513Q | Displaced fracture of unspecified radial styloid process, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.513R | Displaced fracture of unspecified radial styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.513S | Displaced fracture of unspecified radial styloid process, sequela  | Diagnosis     | ICD-10-CM |
| S52.514  | Nondisplaced fracture of right radial styloid process  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.514A | Nondisplaced fracture of right radial styloid process, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.514B | Nondisplaced fracture of right radial styloid process, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.514C | Nondisplaced fracture of right radial styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.514D | Nondisplaced fracture of right radial styloid process, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.514E | Nondisplaced fracture of right radial styloid process, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.514F | Nondisplaced fracture of right radial styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.514G | Nondisplaced fracture of right radial styloid process, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.514H | Nondisplaced fracture of right radial styloid process, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.514J | Nondisplaced fracture of right radial styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.514K | Nondisplaced fracture of right radial styloid process, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.514M | Nondisplaced fracture of right radial styloid process, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.514N | Nondisplaced fracture of right radial styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.514P | Nondisplaced fracture of right radial styloid process, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.514Q | Nondisplaced fracture of right radial styloid process, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.514R | Nondisplaced fracture of right radial styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.514S | Nondisplaced fracture of right radial styloid process, sequela  | Diagnosis     | ICD-10-CM |
| S52.515  | Nondisplaced fracture of left radial styloid process  | Diagnosis     | ICD-10-CM |
| S52.515A | Nondisplaced fracture of left radial styloid process, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.515B | Nondisplaced fracture of left radial styloid process, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S52.515C | Nondisplaced fracture of left radial styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S52.515D | Nondisplaced fracture of left radial styloid process, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S52.515E | Nondisplaced fracture of left radial styloid process, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S52.515F | Nondisplaced fracture of left radial styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S52.515G | Nondisplaced fracture of left radial styloid process, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S52.515H | Nondisplaced fracture of left radial styloid process, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S52.515J | Nondisplaced fracture of left radial styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S52.515K | Nondisplaced fracture of left radial styloid process, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.515M | Nondisplaced fracture of left radial styloid process, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.515N | Nondisplaced fracture of left radial styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.515P | Nondisplaced fracture of left radial styloid process, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.515Q | Nondisplaced fracture of left radial styloid process, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.515R | Nondisplaced fracture of left radial styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.515S | Nondisplaced fracture of left radial styloid process, sequela   | Diagnosis     | ICD-10-CM |
| S52.516  | Nondisplaced fracture of unspecified radial styloid process   | Diagnosis     | ICD-10-CM |
| S52.516A | Nondisplaced fracture of unspecified radial styloid process, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.516B | Nondisplaced fracture of unspecified radial styloid process, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.516C | Nondisplaced fracture of unspecified radial styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.516D | Nondisplaced fracture of unspecified radial styloid process, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.516E | Nondisplaced fracture of unspecified radial styloid process, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.516F | Nondisplaced fracture of unspecified radial styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.516G | Nondisplaced fracture of unspecified radial styloid process, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.516H | Nondisplaced fracture of unspecified radial styloid process, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.516J | Nondisplaced fracture of unspecified radial styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.516K | Nondisplaced fracture of unspecified radial styloid process, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.516M | Nondisplaced fracture of unspecified radial styloid process, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.516N | Nondisplaced fracture of unspecified radial styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.516P | Nondisplaced fracture of unspecified radial styloid process, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.516Q | Nondisplaced fracture of unspecified radial styloid process, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.516R | Nondisplaced fracture of unspecified radial styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.516S | Nondisplaced fracture of unspecified radial styloid process, sequela  | Diagnosis     | ICD-10-CM |
| S52.52   | Torus fracture of lower end of radius   | Diagnosis     | ICD-10-CM |
| S52.521  | Torus fracture of lower end of right radius   | Diagnosis     | ICD-10-CM |
| S52.521A | Torus fracture of lower end of right radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.521D | Torus fracture of lower end of right radius, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S52.521G | Torus fracture of lower end of right radius, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.521K | Torus fracture of lower end of right radius, subsequent encounter for fracture with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.521P | Torus fracture of lower end of right radius, subsequent encounter for fracture with malunion                           | Diagnosis     | ICD-10-CM |
| S52.521S | Torus fracture of lower end of right radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.522  | Torus fracture of lower end of left radius   | Diagnosis     | ICD-10-CM |
| S52.522A | Torus fracture of lower end of left radius, initial encounter for closed fracture                                      | Diagnosis     | ICD-10-CM |
| S52.522D | Torus fracture of lower end of left radius, subsequent encounter for fracture with routine healing                     | Diagnosis     | ICD-10-CM |
| S52.522G | Torus fracture of lower end of left radius, subsequent encounter for fracture with delayed healing                     | Diagnosis     | ICD-10-CM |
| S52.522K | Torus fracture of lower end of left radius, subsequent encounter for fracture with nonunion                            | Diagnosis     | ICD-10-CM |
| S52.522P | Torus fracture of lower end of left radius, subsequent encounter for fracture with malunion                            | Diagnosis     | ICD-10-CM |
| S52.522S | Torus fracture of lower end of left radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.529  | Torus fracture of lower end of unspecified radius  | Diagnosis     | ICD-10-CM |
| S52.529A | Torus fracture of lower end of unspecified radius, initial encounter for closed fracture                               | Diagnosis     | ICD-10-CM |
| S52.529D | Torus fracture of lower end of unspecified radius, subsequent encounter for fracture with routine healing              | Diagnosis     | ICD-10-CM |
| S52.529G | Torus fracture of lower end of unspecified radius, subsequent encounter for fracture with delayed healing              | Diagnosis     | ICD-10-CM |
| S52.529K | Torus fracture of lower end of unspecified radius, subsequent encounter for fracture with nonunion                     | Diagnosis     | ICD-10-CM |
| S52.529P | Torus fracture of lower end of unspecified radius, subsequent encounter for fracture with malunion                     | Diagnosis     | ICD-10-CM |
| S52.529S | Torus fracture of lower end of unspecified radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.53   | Colles' fracture   | Diagnosis     | ICD-10-CM |
| S52.531  | Colles' fracture of right radius   | Diagnosis     | ICD-10-CM |
| S52.531A | Colles' fracture of right radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.531B | Colles' fracture of right radius, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.531C | Colles' fracture of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.531D | Colles' fracture of right radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.531E | Colles' fracture of right radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.531F | Colles' fracture of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.531G | Colles' fracture of right radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.531H | Colles' fracture of right radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.531J | Colles' fracture of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.531K | Colles' fracture of right radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.531M | Colles' fracture of right radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.531N | Colles' fracture of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.531P | Colles' fracture of right radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.531Q | Colles' fracture of right radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.531R | Colles' fracture of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.531S | Colles' fracture of right radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.532  | Colles' fracture of left radius  | Diagnosis     | ICD-10-CM |
| S52.532A | Colles' fracture of left radius, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.532B | Colles' fracture of left radius, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.532C | Colles' fracture of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S52.532D | Colles' fracture of left radius, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S52.532E | Colles' fracture of left radius, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S52.532F | Colles' fracture of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.532G | Colles' fracture of left radius, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.532H | Colles' fracture of left radius, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.532J | Colles' fracture of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.532K | Colles' fracture of left radius, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.532M | Colles' fracture of left radius, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.532N | Colles' fracture of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.532P | Colles' fracture of left radius, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.532Q | Colles' fracture of left radius, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.532R | Colles' fracture of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.532S | Colles' fracture of left radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.539  | Colles' fracture of unspecified radius   | Diagnosis     | ICD-10-CM |
| S52.539A | Colles' fracture of unspecified radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.539B | Colles' fracture of unspecified radius, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.539C | Colles' fracture of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.539D | Colles' fracture of unspecified radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.539E | Colles' fracture of unspecified radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.539F | Colles' fracture of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.539G | Colles' fracture of unspecified radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.539H | Colles' fracture of unspecified radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.539J | Colles' fracture of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.539K | Colles' fracture of unspecified radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.539M | Colles' fracture of unspecified radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.539N | Colles' fracture of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.539P | Colles' fracture of unspecified radius, subsequent encounter for closed fracture with malunion                         | Diagnosis     | ICD-10-CM |
| S52.539Q | Colles' fracture of unspecified radius, subsequent encounter for open fracture type I or II with malunion              | Diagnosis     | ICD-10-CM |
| S52.539R | Colles' fracture of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion  | Diagnosis     | ICD-10-CM |
| S52.539S | Colles' fracture of unspecified radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.54   | Smith's fracture   | Diagnosis     | ICD-10-CM |
| S52.541  | Smith's fracture of right radius   | Diagnosis     | ICD-10-CM |
| S52.541A | Smith's fracture of right radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.541B | Smith's fracture of right radius, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.541C | Smith's fracture of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.541D | Smith's fracture of right radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.541E | Smith's fracture of right radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.541F | Smith's fracture of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.541G | Smith's fracture of right radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.541H | Smith's fracture of right radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.541J | Smith's fracture of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.541K | Smith's fracture of right radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.541M | Smith's fracture of right radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.541N | Smith's fracture of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.541P | Smith's fracture of right radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.541Q | Smith's fracture of right radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.541R | Smith's fracture of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.541S | Smith's fracture of right radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.542  | Smith's fracture of left radius  | Diagnosis     | ICD-10-CM |
| S52.542A | Smith's fracture of left radius, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.542B | Smith's fracture of left radius, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S52.542C | Smith's fracture of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S52.542D | Smith's fracture of left radius, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S52.542E | Smith's fracture of left radius, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S52.542F | Smith's fracture of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S52.542G | Smith's fracture of left radius, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S52.542H | Smith's fracture of left radius, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S52.542J | Smith's fracture of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.542K | Smith's fracture of left radius, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.542M | Smith's fracture of left radius, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.542N | Smith's fracture of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.542P | Smith's fracture of left radius, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.542Q | Smith's fracture of left radius, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.542R | Smith's fracture of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.542S | Smith's fracture of left radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.549  | Smith's fracture of unspecified radius   | Diagnosis     | ICD-10-CM |
| S52.549A | Smith's fracture of unspecified radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.549B | Smith's fracture of unspecified radius, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.549C | Smith's fracture of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.549D | Smith's fracture of unspecified radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.549E | Smith's fracture of unspecified radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.549F | Smith's fracture of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.549G | Smith's fracture of unspecified radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.549H | Smith's fracture of unspecified radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.549J | Smith's fracture of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.549K | Smith's fracture of unspecified radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.549M | Smith's fracture of unspecified radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.549N | Smith's fracture of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.549P | Smith's fracture of unspecified radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.549Q | Smith's fracture of unspecified radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.549R | Smith's fracture of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.549S | Smith's fracture of unspecified radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.55   | Other extraarticular fracture of lower end of radius   | Diagnosis     | ICD-10-CM |
| S52.551  | Other extraarticular fracture of lower end of right radius   | Diagnosis     | ICD-10-CM |
| S52.551A | Other extraarticular fracture of lower end of right radius, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S52.551B | Other extraarticular fracture of lower end of right radius, initial encounter for open fracture type I or II                 | Diagnosis     | ICD-10-CM |
| S52.551C | Other extraarticular fracture of lower end of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC     | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.551D | Other extraarticular fracture of lower end of right radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.551E | Other extraarticular fracture of lower end of right radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.551F | Other extraarticular fracture of lower end of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.551G | Other extraarticular fracture of lower end of right radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.551H | Other extraarticular fracture of lower end of right radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.551J | Other extraarticular fracture of lower end of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.551K | Other extraarticular fracture of lower end of right radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.551M | Other extraarticular fracture of lower end of right radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.551N | Other extraarticular fracture of lower end of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.551P | Other extraarticular fracture of lower end of right radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.551Q | Other extraarticular fracture of lower end of right radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.551R | Other extraarticular fracture of lower end of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.551S | Other extraarticular fracture of lower end of right radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.552  | Other extraarticular fracture of lower end of left radius  | Diagnosis     | ICD-10-CM |
| S52.552A | Other extraarticular fracture of lower end of left radius, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.552B | Other extraarticular fracture of lower end of left radius, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S52.552C | Other extraarticular fracture of lower end of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S52.552D | Other extraarticular fracture of lower end of left radius, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S52.552E | Other extraarticular fracture of lower end of left radius, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S52.552F | Other extraarticular fracture of lower end of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S52.552G | Other extraarticular fracture of lower end of left radius, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S52.552H | Other extraarticular fracture of lower end of left radius, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S52.552J | Other extraarticular fracture of lower end of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S52.552K | Other extraarticular fracture of lower end of left radius, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S52.552M | Other extraarticular fracture of lower end of left radius, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S52.552N | Other extraarticular fracture of lower end of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.552P | Other extraarticular fracture of lower end of left radius, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.552Q | Other extraarticular fracture of lower end of left radius, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.552R | Other extraarticular fracture of lower end of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.552S | Other extraarticular fracture of lower end of left radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.559  | Other extraarticular fracture of lower end of unspecified radius   | Diagnosis     | ICD-10-CM |
| S52.559A | Other extraarticular fracture of lower end of unspecified radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.559B | Other extraarticular fracture of lower end of unspecified radius, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.559C | Other extraarticular fracture of lower end of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.559D | Other extraarticular fracture of lower end of unspecified radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.559E | Other extraarticular fracture of lower end of unspecified radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.559F | Other extraarticular fracture of lower end of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.559G | Other extraarticular fracture of lower end of unspecified radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.559H | Other extraarticular fracture of lower end of unspecified radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.559J | Other extraarticular fracture of lower end of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.559K | Other extraarticular fracture of lower end of unspecified radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.559M | Other extraarticular fracture of lower end of unspecified radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.559N | Other extraarticular fracture of lower end of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.559P | Other extraarticular fracture of lower end of unspecified radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.559Q | Other extraarticular fracture of lower end of unspecified radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.559R | Other extraarticular fracture of lower end of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.559S | Other extraarticular fracture of lower end of unspecified radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.56   | Barton's fracture  | Diagnosis     | ICD-10-CM |
| S52.561  | Barton's fracture of right radius  | Diagnosis     | ICD-10-CM |
| S52.561A | Barton's fracture of right radius, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.561B | Barton's fracture of right radius, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.561C | Barton's fracture of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC  | Diagnosis     | ICD-10-CM |
| S52.561D | Barton's fracture of right radius, subsequent encounter for closed fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S52.561E | Barton's fracture of right radius, subsequent encounter for open fracture type I or II with routine healing  | Diagnosis     | ICD-10-CM |
| S52.561F | Barton's fracture of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.561G | Barton's fracture of right radius, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S52.561H | Barton's fracture of right radius, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S52.561J | Barton's fracture of right radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.561K | Barton's fracture of right radius, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S52.561M | Barton's fracture of right radius, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S52.561N | Barton's fracture of right radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.561P | Barton's fracture of right radius, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S52.561Q | Barton's fracture of right radius, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S52.561R | Barton's fracture of right radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.561S | Barton's fracture of right radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.562  | Barton's fracture of left radius  | Diagnosis     | ICD-10-CM |
| S52.562A | Barton's fracture of left radius, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.562B | Barton's fracture of left radius, initial encounter for open fracture type I or II                                    | Diagnosis     | ICD-10-CM |
| S52.562C | Barton's fracture of left radius, initial encounter for open fracture type IIIA, IIB, or IIC                          | Diagnosis     | ICD-10-CM |
| S52.562D | Barton's fracture of left radius, subsequent encounter for closed fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S52.562E | Barton's fracture of left radius, subsequent encounter for open fracture type I or II with routine healing            | Diagnosis     | ICD-10-CM |
| S52.562F | Barton's fracture of left radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing  | Diagnosis     | ICD-10-CM |
| S52.562G | Barton's fracture of left radius, subsequent encounter for closed fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S52.562H | Barton's fracture of left radius, subsequent encounter for open fracture type I or II with delayed healing            | Diagnosis     | ICD-10-CM |
| S52.562J | Barton's fracture of left radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S52.562K | Barton's fracture of left radius, subsequent encounter for closed fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S52.562M | Barton's fracture of left radius, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S52.562N | Barton's fracture of left radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion         | Diagnosis     | ICD-10-CM |
| S52.562P | Barton's fracture of left radius, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S52.562Q | Barton's fracture of left radius, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S52.562R | Barton's fracture of left radius, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion         | Diagnosis     | ICD-10-CM |
| S52.562S | Barton's fracture of left radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.569  | Barton's fracture of unspecified radius   | Diagnosis     | ICD-10-CM |
| S52.569A | Barton's fracture of unspecified radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.569B | Barton's fracture of unspecified radius, initial encounter for open fracture type I or II                             | Diagnosis     | ICD-10-CM |
| S52.569C | Barton's fracture of unspecified radius, initial encounter for open fracture type IIIA, IIB, or IIC                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.569D | Barton's fracture of unspecified radius, subsequent encounter for closed fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S52.569E | Barton's fracture of unspecified radius, subsequent encounter for open fracture type I or II with routine healing                                | Diagnosis     | ICD-10-CM |
| S52.569F | Barton's fracture of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing                    | Diagnosis     | ICD-10-CM |
| S52.569G | Barton's fracture of unspecified radius, subsequent encounter for closed fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S52.569H | Barton's fracture of unspecified radius, subsequent encounter for open fracture type I or II with delayed healing                                | Diagnosis     | ICD-10-CM |
| S52.569J | Barton's fracture of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.569K | Barton's fracture of unspecified radius, subsequent encounter for closed fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S52.569M | Barton's fracture of unspecified radius, subsequent encounter for open fracture type I or II with nonunion                                       | Diagnosis     | ICD-10-CM |
| S52.569N | Barton's fracture of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.569P | Barton's fracture of unspecified radius, subsequent encounter for closed fracture with malunion  | Diagnosis     | ICD-10-CM |
| S52.569Q | Barton's fracture of unspecified radius, subsequent encounter for open fracture type I or II with malunion                                       | Diagnosis     | ICD-10-CM |
| S52.569R | Barton's fracture of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion                           | Diagnosis     | ICD-10-CM |
| S52.569S | Barton's fracture of unspecified radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.57   | Other intraarticular fracture of lower end of radius   | Diagnosis     | ICD-10-CM |
| S52.571  | Other intraarticular fracture of lower end of right radius   | Diagnosis     | ICD-10-CM |
| S52.571A | Other intraarticular fracture of lower end of right radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.571B | Other intraarticular fracture of lower end of right radius, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.571C | Other intraarticular fracture of lower end of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.571D | Other intraarticular fracture of lower end of right radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.571E | Other intraarticular fracture of lower end of right radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.571F | Other intraarticular fracture of lower end of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.571G | Other intraarticular fracture of lower end of right radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.571H | Other intraarticular fracture of lower end of right radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.571J | Other intraarticular fracture of lower end of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.571K | Other intraarticular fracture of lower end of right radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.571M | Other intraarticular fracture of lower end of right radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.571N | Other intraarticular fracture of lower end of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion       | Diagnosis     | ICD-10-CM |
| S52.571P | Other intraarticular fracture of lower end of right radius, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S52.571Q | Other intraarticular fracture of lower end of right radius, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S52.571R | Other intraarticular fracture of lower end of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S52.571S | Other intraarticular fracture of lower end of right radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.572  | Other intraarticular fracture of lower end of left radius   | Diagnosis     | ICD-10-CM |
| S52.572A | Other intraarticular fracture of lower end of left radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.572B | Other intraarticular fracture of lower end of left radius, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.572C | Other intraarticular fracture of lower end of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.572D | Other intraarticular fracture of lower end of left radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.572E | Other intraarticular fracture of lower end of left radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.572F | Other intraarticular fracture of lower end of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.572G | Other intraarticular fracture of lower end of left radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.572H | Other intraarticular fracture of lower end of left radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.572J | Other intraarticular fracture of lower end of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.572K | Other intraarticular fracture of lower end of left radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.572M | Other intraarticular fracture of lower end of left radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.572N | Other intraarticular fracture of lower end of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.572P | Other intraarticular fracture of lower end of left radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.572Q | Other intraarticular fracture of lower end of left radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.572R | Other intraarticular fracture of lower end of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.572S | Other intraarticular fracture of lower end of left radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.579  | Other intraarticular fracture of lower end of unspecified radius  | Diagnosis     | ICD-10-CM |
| S52.579A | Other intraarticular fracture of lower end of unspecified radius, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.579B | Other intraarticular fracture of lower end of unspecified radius, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |
| S52.579C | Other intraarticular fracture of lower end of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                  | Diagnosis     | ICD-10-CM |
| S52.579D | Other intraarticular fracture of lower end of unspecified radius, subsequent encounter for closed fracture with routine healing                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.579E | Other intraarticular fracture of lower end of unspecified radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.579F | Other intraarticular fracture of lower end of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.579G | Other intraarticular fracture of lower end of unspecified radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.579H | Other intraarticular fracture of lower end of unspecified radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.579J | Other intraarticular fracture of lower end of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.579K | Other intraarticular fracture of lower end of unspecified radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.579M | Other intraarticular fracture of lower end of unspecified radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.579N | Other intraarticular fracture of lower end of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.579P | Other intraarticular fracture of lower end of unspecified radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.579Q | Other intraarticular fracture of lower end of unspecified radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.579R | Other intraarticular fracture of lower end of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.579S | Other intraarticular fracture of lower end of unspecified radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.59   | Other fractures of lower end of radius   | Diagnosis     | ICD-10-CM |
| S52.591  | Other fractures of lower end of right radius   | Diagnosis     | ICD-10-CM |
| S52.591A | Other fractures of lower end of right radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.591B | Other fractures of lower end of right radius, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S52.591C | Other fractures of lower end of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC   | Diagnosis     | ICD-10-CM |
| S52.591D | Other fractures of lower end of right radius, subsequent encounter for closed fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S52.591E | Other fractures of lower end of right radius, subsequent encounter for open fracture type I or II with routine healing                                 | Diagnosis     | ICD-10-CM |
| S52.591F | Other fractures of lower end of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing                     | Diagnosis     | ICD-10-CM |
| S52.591G | Other fractures of lower end of right radius, subsequent encounter for closed fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S52.591H | Other fractures of lower end of right radius, subsequent encounter for open fracture type I or II with delayed healing                                 | Diagnosis     | ICD-10-CM |
| S52.591J | Other fractures of lower end of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing                     | Diagnosis     | ICD-10-CM |
| S52.591K | Other fractures of lower end of right radius, subsequent encounter for closed fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S52.591M | Other fractures of lower end of right radius, subsequent encounter for open fracture type I or II with nonunion  | Diagnosis     | ICD-10-CM |
| S52.591N | Other fractures of lower end of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion                            | Diagnosis     | ICD-10-CM |
| S52.591P | Other fractures of lower end of right radius, subsequent encounter for closed fracture with malunion   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.591Q | Other fractures of lower end of right radius, subsequent encounter for open fracture type I or II with malunion                          | Diagnosis     | ICD-10-CM |
| S52.591R | Other fractures of lower end of right radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion              | Diagnosis     | ICD-10-CM |
| S52.591S | Other fractures of lower end of right radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.592  | Other fractures of lower end of left radius  | Diagnosis     | ICD-10-CM |
| S52.592A | Other fractures of lower end of left radius, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.592B | Other fractures of lower end of left radius, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.592C | Other fractures of lower end of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S52.592D | Other fractures of lower end of left radius, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S52.592E | Other fractures of lower end of left radius, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S52.592F | Other fractures of lower end of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.592G | Other fractures of lower end of left radius, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.592H | Other fractures of lower end of left radius, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.592J | Other fractures of lower end of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.592K | Other fractures of lower end of left radius, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.592M | Other fractures of lower end of left radius, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.592N | Other fractures of lower end of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.592P | Other fractures of lower end of left radius, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.592Q | Other fractures of lower end of left radius, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.592R | Other fractures of lower end of left radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.592S | Other fractures of lower end of left radius, sequela   | Diagnosis     | ICD-10-CM |
| S52.599  | Other fractures of lower end of unspecified radius   | Diagnosis     | ICD-10-CM |
| S52.599A | Other fractures of lower end of unspecified radius, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.599B | Other fractures of lower end of unspecified radius, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.599C | Other fractures of lower end of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.599D | Other fractures of lower end of unspecified radius, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.599E | Other fractures of lower end of unspecified radius, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.599F | Other fractures of lower end of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.599G | Other fractures of lower end of unspecified radius, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.599H | Other fractures of lower end of unspecified radius, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.599J | Other fractures of lower end of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.599K | Other fractures of lower end of unspecified radius, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.599M | Other fractures of lower end of unspecified radius, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.599N | Other fractures of lower end of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.599P | Other fractures of lower end of unspecified radius, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.599Q | Other fractures of lower end of unspecified radius, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.599R | Other fractures of lower end of unspecified radius, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.599S | Other fractures of lower end of unspecified radius, sequela  | Diagnosis     | ICD-10-CM |
| S52.6    | Fracture of lower end of ulna  | Diagnosis     | ICD-10-CM |
| S52.60   | Unspecified fracture of lower end of ulna  | Diagnosis     | ICD-10-CM |
| S52.601  | Unspecified fracture of lower end of right ulna  | Diagnosis     | ICD-10-CM |
| S52.601A | Unspecified fracture of lower end of right ulna, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.601B | Unspecified fracture of lower end of right ulna, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.601C | Unspecified fracture of lower end of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S52.601D | Unspecified fracture of lower end of right ulna, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S52.601E | Unspecified fracture of lower end of right ulna, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S52.601F | Unspecified fracture of lower end of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S52.601G | Unspecified fracture of lower end of right ulna, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S52.601H | Unspecified fracture of lower end of right ulna, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S52.601J | Unspecified fracture of lower end of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S52.601K | Unspecified fracture of lower end of right ulna, subsequent encounter for closed fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S52.601M | Unspecified fracture of lower end of right ulna, subsequent encounter for open fracture type I or II with nonunion                       | Diagnosis     | ICD-10-CM |
| S52.601N | Unspecified fracture of lower end of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion           | Diagnosis     | ICD-10-CM |
| S52.601P | Unspecified fracture of lower end of right ulna, subsequent encounter for closed fracture with malunion                                  | Diagnosis     | ICD-10-CM |
| S52.601Q | Unspecified fracture of lower end of right ulna, subsequent encounter for open fracture type I or II with malunion                       | Diagnosis     | ICD-10-CM |
| S52.601R | Unspecified fracture of lower end of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion           | Diagnosis     | ICD-10-CM |
| S52.601S | Unspecified fracture of lower end of right ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.602  | Unspecified fracture of lower end of left ulna   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.602A | Unspecified fracture of lower end of left ulna, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.602B | Unspecified fracture of lower end of left ulna, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S52.602C | Unspecified fracture of lower end of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S52.602D | Unspecified fracture of lower end of left ulna, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S52.602E | Unspecified fracture of lower end of left ulna, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S52.602F | Unspecified fracture of lower end of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.602G | Unspecified fracture of lower end of left ulna, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.602H | Unspecified fracture of lower end of left ulna, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.602J | Unspecified fracture of lower end of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.602K | Unspecified fracture of lower end of left ulna, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.602M | Unspecified fracture of lower end of left ulna, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.602N | Unspecified fracture of lower end of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.602P | Unspecified fracture of lower end of left ulna, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.602Q | Unspecified fracture of lower end of left ulna, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.602R | Unspecified fracture of lower end of left ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.602S | Unspecified fracture of lower end of left ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.609  | Unspecified fracture of lower end of unspecified ulna   | Diagnosis     | ICD-10-CM |
| S52.609A | Unspecified fracture of lower end of unspecified ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.609B | Unspecified fracture of lower end of unspecified ulna, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.609C | Unspecified fracture of lower end of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.609D | Unspecified fracture of lower end of unspecified ulna, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.609E | Unspecified fracture of lower end of unspecified ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.609F | Unspecified fracture of lower end of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.609G | Unspecified fracture of lower end of unspecified ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.609H | Unspecified fracture of lower end of unspecified ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.609J | Unspecified fracture of lower end of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.609K | Unspecified fracture of lower end of unspecified ulna, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.609M | Unspecified fracture of lower end of unspecified ulna, subsequent encounter for open fracture type I or II with nonunion               | Diagnosis     | ICD-10-CM |
| S52.609N | Unspecified fracture of lower end of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion   | Diagnosis     | ICD-10-CM |
| S52.609P | Unspecified fracture of lower end of unspecified ulna, subsequent encounter for closed fracture with malunion                          | Diagnosis     | ICD-10-CM |
| S52.609Q | Unspecified fracture of lower end of unspecified ulna, subsequent encounter for open fracture type I or II with malunion               | Diagnosis     | ICD-10-CM |
| S52.609R | Unspecified fracture of lower end of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion   | Diagnosis     | ICD-10-CM |
| S52.609S | Unspecified fracture of lower end of unspecified ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.61   | Fracture of ulna styloid process   | Diagnosis     | ICD-10-CM |
| S52.611  | Displaced fracture of right ulna styloid process   | Diagnosis     | ICD-10-CM |
| S52.611A | Displaced fracture of right ulna styloid process, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.611B | Displaced fracture of right ulna styloid process, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.611C | Displaced fracture of right ulna styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.611D | Displaced fracture of right ulna styloid process, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.611E | Displaced fracture of right ulna styloid process, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.611F | Displaced fracture of right ulna styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.611G | Displaced fracture of right ulna styloid process, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.611H | Displaced fracture of right ulna styloid process, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.611J | Displaced fracture of right ulna styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.611K | Displaced fracture of right ulna styloid process, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.611M | Displaced fracture of right ulna styloid process, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.611N | Displaced fracture of right ulna styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.611P | Displaced fracture of right ulna styloid process, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.611Q | Displaced fracture of right ulna styloid process, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.611R | Displaced fracture of right ulna styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.611S | Displaced fracture of right ulna styloid process, sequela  | Diagnosis     | ICD-10-CM |
| S52.612  | Displaced fracture of left ulna styloid process  | Diagnosis     | ICD-10-CM |
| S52.612A | Displaced fracture of left ulna styloid process, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.612B | Displaced fracture of left ulna styloid process, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S52.612C | Displaced fracture of left ulna styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S52.612D | Displaced fracture of left ulna styloid process, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.612E | Displaced fracture of left ulna styloid process, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S52.612F | Displaced fracture of left ulna styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S52.612G | Displaced fracture of left ulna styloid process, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.612H | Displaced fracture of left ulna styloid process, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.612J | Displaced fracture of left ulna styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.612K | Displaced fracture of left ulna styloid process, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.612M | Displaced fracture of left ulna styloid process, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.612N | Displaced fracture of left ulna styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.612P | Displaced fracture of left ulna styloid process, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.612Q | Displaced fracture of left ulna styloid process, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.612R | Displaced fracture of left ulna styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.612S | Displaced fracture of left ulna styloid process, sequela   | Diagnosis     | ICD-10-CM |
| S52.613  | Displaced fracture of unspecified ulna styloid process   | Diagnosis     | ICD-10-CM |
| S52.613A | Displaced fracture of unspecified ulna styloid process, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.613B | Displaced fracture of unspecified ulna styloid process, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.613C | Displaced fracture of unspecified ulna styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.613D | Displaced fracture of unspecified ulna styloid process, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.613E | Displaced fracture of unspecified ulna styloid process, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.613F | Displaced fracture of unspecified ulna styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.613G | Displaced fracture of unspecified ulna styloid process, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.613H | Displaced fracture of unspecified ulna styloid process, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.613J | Displaced fracture of unspecified ulna styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.613K | Displaced fracture of unspecified ulna styloid process, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.613M | Displaced fracture of unspecified ulna styloid process, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.613N | Displaced fracture of unspecified ulna styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.613P | Displaced fracture of unspecified ulna styloid process, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.613Q | Displaced fracture of unspecified ulna styloid process, subsequent encounter for open fracture type I or II with malunion                 | Diagnosis     | ICD-10-CM |
| S52.613R | Displaced fracture of unspecified ulna styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion     | Diagnosis     | ICD-10-CM |
| S52.613S | Displaced fracture of unspecified ulna styloid process, sequela   | Diagnosis     | ICD-10-CM |
| S52.614  | Nondisplaced fracture of right ulna styloid process   | Diagnosis     | ICD-10-CM |
| S52.614A | Nondisplaced fracture of right ulna styloid process, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.614B | Nondisplaced fracture of right ulna styloid process, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.614C | Nondisplaced fracture of right ulna styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.614D | Nondisplaced fracture of right ulna styloid process, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.614E | Nondisplaced fracture of right ulna styloid process, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.614F | Nondisplaced fracture of right ulna styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.614G | Nondisplaced fracture of right ulna styloid process, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.614H | Nondisplaced fracture of right ulna styloid process, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.614J | Nondisplaced fracture of right ulna styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.614K | Nondisplaced fracture of right ulna styloid process, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.614M | Nondisplaced fracture of right ulna styloid process, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.614N | Nondisplaced fracture of right ulna styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.614P | Nondisplaced fracture of right ulna styloid process, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.614Q | Nondisplaced fracture of right ulna styloid process, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.614R | Nondisplaced fracture of right ulna styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.614S | Nondisplaced fracture of right ulna styloid process, sequela  | Diagnosis     | ICD-10-CM |
| S52.615  | Nondisplaced fracture of left ulna styloid process  | Diagnosis     | ICD-10-CM |
| S52.615A | Nondisplaced fracture of left ulna styloid process, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.615B | Nondisplaced fracture of left ulna styloid process, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S52.615C | Nondisplaced fracture of left ulna styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S52.615D | Nondisplaced fracture of left ulna styloid process, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S52.615E | Nondisplaced fracture of left ulna styloid process, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S52.615F | Nondisplaced fracture of left ulna styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S52.615G | Nondisplaced fracture of left ulna styloid process, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.615H | Nondisplaced fracture of left ulna styloid process, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S52.615J | Nondisplaced fracture of left ulna styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S52.615K | Nondisplaced fracture of left ulna styloid process, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.615M | Nondisplaced fracture of left ulna styloid process, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S52.615N | Nondisplaced fracture of left ulna styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S52.615P | Nondisplaced fracture of left ulna styloid process, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.615Q | Nondisplaced fracture of left ulna styloid process, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S52.615R | Nondisplaced fracture of left ulna styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S52.615S | Nondisplaced fracture of left ulna styloid process, sequela   | Diagnosis     | ICD-10-CM |
| S52.616  | Nondisplaced fracture of unspecified ulna styloid process   | Diagnosis     | ICD-10-CM |
| S52.616A | Nondisplaced fracture of unspecified ulna styloid process, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.616B | Nondisplaced fracture of unspecified ulna styloid process, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.616C | Nondisplaced fracture of unspecified ulna styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.616D | Nondisplaced fracture of unspecified ulna styloid process, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.616E | Nondisplaced fracture of unspecified ulna styloid process, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.616F | Nondisplaced fracture of unspecified ulna styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.616G | Nondisplaced fracture of unspecified ulna styloid process, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.616H | Nondisplaced fracture of unspecified ulna styloid process, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.616J | Nondisplaced fracture of unspecified ulna styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.616K | Nondisplaced fracture of unspecified ulna styloid process, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.616M | Nondisplaced fracture of unspecified ulna styloid process, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.616N | Nondisplaced fracture of unspecified ulna styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.616P | Nondisplaced fracture of unspecified ulna styloid process, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.616Q | Nondisplaced fracture of unspecified ulna styloid process, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.616R | Nondisplaced fracture of unspecified ulna styloid process, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.616S | Nondisplaced fracture of unspecified ulna styloid process, sequela  | Diagnosis     | ICD-10-CM |
| S52.62   | Torus fracture of lower end of ulna   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.621  | Torus fracture of lower end of right ulna   | Diagnosis     | ICD-10-CM |
| S52.621A | Torus fracture of lower end of right ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.621D | Torus fracture of lower end of right ulna, subsequent encounter for fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S52.621G | Torus fracture of lower end of right ulna, subsequent encounter for fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S52.621K | Torus fracture of lower end of right ulna, subsequent encounter for fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S52.621P | Torus fracture of lower end of right ulna, subsequent encounter for fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S52.621S | Torus fracture of lower end of right ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.622  | Torus fracture of lower end of left ulna  | Diagnosis     | ICD-10-CM |
| S52.622A | Torus fracture of lower end of left ulna, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.622D | Torus fracture of lower end of left ulna, subsequent encounter for fracture with routine healing                                | Diagnosis     | ICD-10-CM |
| S52.622G | Torus fracture of lower end of left ulna, subsequent encounter for fracture with delayed healing                                | Diagnosis     | ICD-10-CM |
| S52.622K | Torus fracture of lower end of left ulna, subsequent encounter for fracture with nonunion                                       | Diagnosis     | ICD-10-CM |
| S52.622P | Torus fracture of lower end of left ulna, subsequent encounter for fracture with malunion                                       | Diagnosis     | ICD-10-CM |
| S52.622S | Torus fracture of lower end of left ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.629  | Torus fracture of lower end of unspecified ulna   | Diagnosis     | ICD-10-CM |
| S52.629A | Torus fracture of lower end of unspecified ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.629D | Torus fracture of lower end of unspecified ulna, subsequent encounter for fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S52.629G | Torus fracture of lower end of unspecified ulna, subsequent encounter for fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S52.629K | Torus fracture of lower end of unspecified ulna, subsequent encounter for fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S52.629P | Torus fracture of lower end of unspecified ulna, subsequent encounter for fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S52.629S | Torus fracture of lower end of unspecified ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.69   | Other fracture of lower end of ulna   | Diagnosis     | ICD-10-CM |
| S52.691  | Other fracture of lower end of right ulna   | Diagnosis     | ICD-10-CM |
| S52.691A | Other fracture of lower end of right ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.691B | Other fracture of lower end of right ulna, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.691C | Other fracture of lower end of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.691D | Other fracture of lower end of right ulna, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.691E | Other fracture of lower end of right ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.691F | Other fracture of lower end of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.691G | Other fracture of lower end of right ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.691H | Other fracture of lower end of right ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.691J | Other fracture of lower end of right ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.691K | Other fracture of lower end of right ulna, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.691M | Other fracture of lower end of right ulna, subsequent encounter for open fracture type I or II with nonunion                 | Diagnosis     | ICD-10-CM |
| S52.691N | Other fracture of lower end of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion       | Diagnosis     | ICD-10-CM |
| S52.691P | Other fracture of lower end of right ulna, subsequent encounter for closed fracture with malunion                            | Diagnosis     | ICD-10-CM |
| S52.691Q | Other fracture of lower end of right ulna, subsequent encounter for open fracture type I or II with malunion                 | Diagnosis     | ICD-10-CM |
| S52.691R | Other fracture of lower end of right ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion       | Diagnosis     | ICD-10-CM |
| S52.691S | Other fracture of lower end of right ulna, sequela   | Diagnosis     | ICD-10-CM |
| S52.692  | Other fracture of lower end of left ulna   | Diagnosis     | ICD-10-CM |
| S52.692A | Other fracture of lower end of left ulna, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.692B | Other fracture of lower end of left ulna, initial encounter for open fracture type I or II                                   | Diagnosis     | ICD-10-CM |
| S52.692C | Other fracture of lower end of left ulna, initial encounter for open fracture type IIIA, IIB, or IIC                         | Diagnosis     | ICD-10-CM |
| S52.692D | Other fracture of lower end of left ulna, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S52.692E | Other fracture of lower end of left ulna, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S52.692F | Other fracture of lower end of left ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.692G | Other fracture of lower end of left ulna, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S52.692H | Other fracture of lower end of left ulna, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S52.692J | Other fracture of lower end of left ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.692K | Other fracture of lower end of left ulna, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S52.692M | Other fracture of lower end of left ulna, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S52.692N | Other fracture of lower end of left ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.692P | Other fracture of lower end of left ulna, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S52.692Q | Other fracture of lower end of left ulna, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S52.692R | Other fracture of lower end of left ulna, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.692S | Other fracture of lower end of left ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.699  | Other fracture of lower end of unspecified ulna  | Diagnosis     | ICD-10-CM |
| S52.699A | Other fracture of lower end of unspecified ulna, initial encounter for closed fracture                                       | Diagnosis     | ICD-10-CM |
| S52.699B | Other fracture of lower end of unspecified ulna, initial encounter for open fracture type I or II                            | Diagnosis     | ICD-10-CM |
| S52.699C | Other fracture of lower end of unspecified ulna, initial encounter for open fracture type IIIA, IIB, or IIC                  | Diagnosis     | ICD-10-CM |
| S52.699D | Other fracture of lower end of unspecified ulna, subsequent encounter for closed fracture with routine healing               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.699E | Other fracture of lower end of unspecified ulna, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.699F | Other fracture of lower end of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.699G | Other fracture of lower end of unspecified ulna, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.699H | Other fracture of lower end of unspecified ulna, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.699J | Other fracture of lower end of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.699K | Other fracture of lower end of unspecified ulna, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.699M | Other fracture of lower end of unspecified ulna, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.699N | Other fracture of lower end of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.699P | Other fracture of lower end of unspecified ulna, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.699Q | Other fracture of lower end of unspecified ulna, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.699R | Other fracture of lower end of unspecified ulna, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.699S | Other fracture of lower end of unspecified ulna, sequela  | Diagnosis     | ICD-10-CM |
| S52.9    | Unspecified fracture of forearm   | Diagnosis     | ICD-10-CM |
| S52.90   | Unspecified fracture of unspecified forearm   | Diagnosis     | ICD-10-CM |
| S52.90XA | Unspecified fracture of unspecified forearm, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.90XB | Unspecified fracture of unspecified forearm, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S52.90XC | Unspecified fracture of unspecified forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC                             | Diagnosis     | ICD-10-CM |
| S52.90XD | Unspecified fracture of unspecified forearm, subsequent encounter for closed fracture with routine healing                            | Diagnosis     | ICD-10-CM |
| S52.90XE | Unspecified fracture of unspecified forearm, subsequent encounter for open fracture type I or II with routine healing                 | Diagnosis     | ICD-10-CM |
| S52.90XF | Unspecified fracture of unspecified forearm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing     | Diagnosis     | ICD-10-CM |
| S52.90XG | Unspecified fracture of unspecified forearm, subsequent encounter for closed fracture with delayed healing                            | Diagnosis     | ICD-10-CM |
| S52.90XH | Unspecified fracture of unspecified forearm, subsequent encounter for open fracture type I or II with delayed healing                 | Diagnosis     | ICD-10-CM |
| S52.90XJ | Unspecified fracture of unspecified forearm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing     | Diagnosis     | ICD-10-CM |
| S52.90XK | Unspecified fracture of unspecified forearm, subsequent encounter for closed fracture with nonunion                                   | Diagnosis     | ICD-10-CM |
| S52.90XM | Unspecified fracture of unspecified forearm, subsequent encounter for open fracture type I or II with nonunion                        | Diagnosis     | ICD-10-CM |
| S52.90XN | Unspecified fracture of unspecified forearm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion            | Diagnosis     | ICD-10-CM |
| S52.90XP | Unspecified fracture of unspecified forearm, subsequent encounter for closed fracture with malunion                                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S52.90XQ | Unspecified fracture of unspecified forearm, subsequent encounter for open fracture type I or II with malunion              | Diagnosis     | ICD-10-CM |
| S52.90XR | Unspecified fracture of unspecified forearm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion  | Diagnosis     | ICD-10-CM |
| S52.90XS | Unspecified fracture of unspecified forearm, sequela  | Diagnosis     | ICD-10-CM |
| S52.91   | Unspecified fracture of right forearm   | Diagnosis     | ICD-10-CM |
| S52.91XA | Unspecified fracture of right forearm, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S52.91XB | Unspecified fracture of right forearm, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S52.91XC | Unspecified fracture of right forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S52.91XD | Unspecified fracture of right forearm, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S52.91XE | Unspecified fracture of right forearm, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S52.91XF | Unspecified fracture of right forearm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S52.91XG | Unspecified fracture of right forearm, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S52.91XH | Unspecified fracture of right forearm, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S52.91XJ | Unspecified fracture of right forearm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.91XK | Unspecified fracture of right forearm, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.91XM | Unspecified fracture of right forearm, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.91XN | Unspecified fracture of right forearm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.91XP | Unspecified fracture of right forearm, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.91XQ | Unspecified fracture of right forearm, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.91XR | Unspecified fracture of right forearm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.91XS | Unspecified fracture of right forearm, sequela  | Diagnosis     | ICD-10-CM |
| S52.92   | Unspecified fracture of left forearm  | Diagnosis     | ICD-10-CM |
| S52.92XA | Unspecified fracture of left forearm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S52.92XB | Unspecified fracture of left forearm, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S52.92XC | Unspecified fracture of left forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S52.92XD | Unspecified fracture of left forearm, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S52.92XE | Unspecified fracture of left forearm, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S52.92XF | Unspecified fracture of left forearm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S52.92XG | Unspecified fracture of left forearm, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S52.92XH | Unspecified fracture of left forearm, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S52.92XJ | Unspecified fracture of left forearm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S52.92XK | Unspecified fracture of left forearm, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S52.92XM | Unspecified fracture of left forearm, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S52.92XN | Unspecified fracture of left forearm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S52.92XP | Unspecified fracture of left forearm, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S52.92XQ | Unspecified fracture of left forearm, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S52.92XR | Unspecified fracture of left forearm, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S52.92XS | Unspecified fracture of left forearm, sequela  | Diagnosis     | ICD-10-CM |
| S53      | Dislocation and sprain of joints and ligaments of elbow  | Diagnosis     | ICD-10-CM |
| S53.0    | Subluxation and dislocation of radial head   | Diagnosis     | ICD-10-CM |
| S53.00   | Unspecified subluxation and dislocation of radial head   | Diagnosis     | ICD-10-CM |
| S53.001  | Unspecified subluxation of right radial head   | Diagnosis     | ICD-10-CM |
| S53.001A | Unspecified subluxation of right radial head, initial encounter  | Diagnosis     | ICD-10-CM |
| S53.001D | Unspecified subluxation of right radial head, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S53.001S | Unspecified subluxation of right radial head, sequela  | Diagnosis     | ICD-10-CM |
| S53.002  | Unspecified subluxation of left radial head  | Diagnosis     | ICD-10-CM |
| S53.002A | Unspecified subluxation of left radial head, initial encounter   | Diagnosis     | ICD-10-CM |
| S53.002D | Unspecified subluxation of left radial head, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S53.002S | Unspecified subluxation of left radial head, sequela   | Diagnosis     | ICD-10-CM |
| S53.003  | Unspecified subluxation of unspecified radial head   | Diagnosis     | ICD-10-CM |
| S53.003A | Unspecified subluxation of unspecified radial head, initial encounter  | Diagnosis     | ICD-10-CM |
| S53.003D | Unspecified subluxation of unspecified radial head, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S53.003S | Unspecified subluxation of unspecified radial head, sequela  | Diagnosis     | ICD-10-CM |
| S53.004  | Unspecified dislocation of right radial head   | Diagnosis     | ICD-10-CM |
| S53.004A | Unspecified dislocation of right radial head, initial encounter  | Diagnosis     | ICD-10-CM |
| S53.004D | Unspecified dislocation of right radial head, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S53.004S | Unspecified dislocation of right radial head, sequela  | Diagnosis     | ICD-10-CM |
| S53.005  | Unspecified dislocation of left radial head  | Diagnosis     | ICD-10-CM |
| S53.005A | Unspecified dislocation of left radial head, initial encounter   | Diagnosis     | ICD-10-CM |
| S53.005D | Unspecified dislocation of left radial head, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S53.005S | Unspecified dislocation of left radial head, sequela   | Diagnosis     | ICD-10-CM |
| S53.006  | Unspecified dislocation of unspecified radial head   | Diagnosis     | ICD-10-CM |
| S53.006A | Unspecified dislocation of unspecified radial head, initial encounter  | Diagnosis     | ICD-10-CM |
| S53.006D | Unspecified dislocation of unspecified radial head, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S53.006S | Unspecified dislocation of unspecified radial head, sequela  | Diagnosis     | ICD-10-CM |
| S53.01   | Anterior subluxation and dislocation of radial head  | Diagnosis     | ICD-10-CM |
| S53.011  | Anterior subluxation of right radial head  | Diagnosis     | ICD-10-CM |
| S53.011A | Anterior subluxation of right radial head, initial encounter   | Diagnosis     | ICD-10-CM |
| S53.011D | Anterior subluxation of right radial head, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S53.011S | Anterior subluxation of right radial head, sequela   | Diagnosis     | ICD-10-CM |
| S53.012  | Anterior subluxation of left radial head   | Diagnosis     | ICD-10-CM |
| S53.012A | Anterior subluxation of left radial head, initial encounter  | Diagnosis     | ICD-10-CM |
| S53.012D | Anterior subluxation of left radial head, subsequent encounter   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S53.012S | Anterior subluxation of left radial head, sequela                      | Diagnosis     | ICD-10-CM |
| S53.013  | Anterior subluxation of unspecified radial head                        | Diagnosis     | ICD-10-CM |
| S53.013A | Anterior subluxation of unspecified radial head, initial encounter     | Diagnosis     | ICD-10-CM |
| S53.013D | Anterior subluxation of unspecified radial head, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S53.013S | Anterior subluxation of unspecified radial head, sequela               | Diagnosis     | ICD-10-CM |
| S53.014  | Anterior dislocation of right radial head                              | Diagnosis     | ICD-10-CM |
| S53.014A | Anterior dislocation of right radial head, initial encounter           | Diagnosis     | ICD-10-CM |
| S53.014D | Anterior dislocation of right radial head, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S53.014S | Anterior dislocation of right radial head, sequela                     | Diagnosis     | ICD-10-CM |
| S53.015  | Anterior dislocation of left radial head                               | Diagnosis     | ICD-10-CM |
| S53.015A | Anterior dislocation of left radial head, initial encounter            | Diagnosis     | ICD-10-CM |
| S53.015D | Anterior dislocation of left radial head, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S53.015S | Anterior dislocation of left radial head, sequela                      | Diagnosis     | ICD-10-CM |
| S53.016  | Anterior dislocation of unspecified radial head                        | Diagnosis     | ICD-10-CM |
| S53.016A | Anterior dislocation of unspecified radial head, initial encounter     | Diagnosis     | ICD-10-CM |
| S53.016D | Anterior dislocation of unspecified radial head, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S53.016S | Anterior dislocation of unspecified radial head, sequela               | Diagnosis     | ICD-10-CM |
| S53.02   | Posterior subluxation and dislocation of radial head                   | Diagnosis     | ICD-10-CM |
| S53.021  | Posterior subluxation of right radial head                             | Diagnosis     | ICD-10-CM |
| S53.021A | Posterior subluxation of right radial head, initial encounter          | Diagnosis     | ICD-10-CM |
| S53.021D | Posterior subluxation of right radial head, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S53.021S | Posterior subluxation of right radial head, sequela                    | Diagnosis     | ICD-10-CM |
| S53.022  | Posterior subluxation of left radial head                              | Diagnosis     | ICD-10-CM |
| S53.022A | Posterior subluxation of left radial head, initial encounter           | Diagnosis     | ICD-10-CM |
| S53.022D | Posterior subluxation of left radial head, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S53.022S | Posterior subluxation of left radial head, sequela                     | Diagnosis     | ICD-10-CM |
| S53.023  | Posterior subluxation of unspecified radial head                       | Diagnosis     | ICD-10-CM |
| S53.023A | Posterior subluxation of unspecified radial head, initial encounter    | Diagnosis     | ICD-10-CM |
| S53.023D | Posterior subluxation of unspecified radial head, subsequent encounter | Diagnosis     | ICD-10-CM |
| S53.023S | Posterior subluxation of unspecified radial head, sequela              | Diagnosis     | ICD-10-CM |
| S53.024  | Posterior dislocation of right radial head                             | Diagnosis     | ICD-10-CM |
| S53.024A | Posterior dislocation of right radial head, initial encounter          | Diagnosis     | ICD-10-CM |
| S53.024D | Posterior dislocation of right radial head, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S53.024S | Posterior dislocation of right radial head, sequela                    | Diagnosis     | ICD-10-CM |
| S53.025  | Posterior dislocation of left radial head                              | Diagnosis     | ICD-10-CM |
| S53.025A | Posterior dislocation of left radial head, initial encounter           | Diagnosis     | ICD-10-CM |
| S53.025D | Posterior dislocation of left radial head, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S53.025S | Posterior dislocation of left radial head, sequela                     | Diagnosis     | ICD-10-CM |
| S53.026  | Posterior dislocation of unspecified radial head                       | Diagnosis     | ICD-10-CM |
| S53.026A | Posterior dislocation of unspecified radial head, initial encounter    | Diagnosis     | ICD-10-CM |
| S53.026D | Posterior dislocation of unspecified radial head, subsequent encounter | Diagnosis     | ICD-10-CM |
| S53.026S | Posterior dislocation of unspecified radial head, sequela              | Diagnosis     | ICD-10-CM |
| S53.03   | Nursemaid's elbow  | Diagnosis     | ICD-10-CM |
| S53.031  | Nursemaid's elbow, right elbow   | Diagnosis     | ICD-10-CM |
| S53.031A | Nursemaid's elbow, right elbow, initial encounter                      | Diagnosis     | ICD-10-CM |
| S53.031D | Nursemaid's elbow, right elbow, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S53.031S | Nursemaid's elbow, right elbow, sequela                                | Diagnosis     | ICD-10-CM |
| S53.032  | Nursemaid's elbow, left elbow  | Diagnosis     | ICD-10-CM |
| S53.032A | Nursemaid's elbow, left elbow, initial encounter                       | Diagnosis     | ICD-10-CM |
| S53.032D | Nursemaid's elbow, left elbow, subsequent encounter                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S53.032S | Nursemaid's elbow, left elbow, sequela   | Diagnosis     | ICD-10-CM |
| S53.033  | Nursemaid's elbow, unspecified elbow   | Diagnosis     | ICD-10-CM |
| S53.033A | Nursemaid's elbow, unspecified elbow, initial encounter                        | Diagnosis     | ICD-10-CM |
| S53.033D | Nursemaid's elbow, unspecified elbow, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S53.033S | Nursemaid's elbow, unspecified elbow, sequela                                  | Diagnosis     | ICD-10-CM |
| S53.09   | Other subluxation and dislocation of radial head                               | Diagnosis     | ICD-10-CM |
| S53.091  | Other subluxation of right radial head   | Diagnosis     | ICD-10-CM |
| S53.091A | Other subluxation of right radial head, initial encounter                      | Diagnosis     | ICD-10-CM |
| S53.091D | Other subluxation of right radial head, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S53.091S | Other subluxation of right radial head, sequela                                | Diagnosis     | ICD-10-CM |
| S53.092  | Other subluxation of left radial head  | Diagnosis     | ICD-10-CM |
| S53.092A | Other subluxation of left radial head, initial encounter                       | Diagnosis     | ICD-10-CM |
| S53.092D | Other subluxation of left radial head, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S53.092S | Other subluxation of left radial head, sequela                                 | Diagnosis     | ICD-10-CM |
| S53.093  | Other subluxation of unspecified radial head                                   | Diagnosis     | ICD-10-CM |
| S53.093A | Other subluxation of unspecified radial head, initial encounter                | Diagnosis     | ICD-10-CM |
| S53.093D | Other subluxation of unspecified radial head, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S53.093S | Other subluxation of unspecified radial head, sequela                          | Diagnosis     | ICD-10-CM |
| S53.094  | Other dislocation of right radial head   | Diagnosis     | ICD-10-CM |
| S53.094A | Other dislocation of right radial head, initial encounter                      | Diagnosis     | ICD-10-CM |
| S53.094D | Other dislocation of right radial head, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S53.094S | Other dislocation of right radial head, sequela                                | Diagnosis     | ICD-10-CM |
| S53.095  | Other dislocation of left radial head  | Diagnosis     | ICD-10-CM |
| S53.095A | Other dislocation of left radial head, initial encounter                       | Diagnosis     | ICD-10-CM |
| S53.095D | Other dislocation of left radial head, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S53.095S | Other dislocation of left radial head, sequela                                 | Diagnosis     | ICD-10-CM |
| S53.096  | Other dislocation of unspecified radial head                                   | Diagnosis     | ICD-10-CM |
| S53.096A | Other dislocation of unspecified radial head, initial encounter                | Diagnosis     | ICD-10-CM |
| S53.096D | Other dislocation of unspecified radial head, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S53.096S | Other dislocation of unspecified radial head, sequela                          | Diagnosis     | ICD-10-CM |
| S53.1    | Subluxation and dislocation of ulnohumeral joint                               | Diagnosis     | ICD-10-CM |
| S53.10   | Unspecified subluxation and dislocation of ulnohumeral joint                   | Diagnosis     | ICD-10-CM |
| S53.101  | Unspecified subluxation of right ulnohumeral joint                             | Diagnosis     | ICD-10-CM |
| S53.101A | Unspecified subluxation of right ulnohumeral joint, initial encounter          | Diagnosis     | ICD-10-CM |
| S53.101D | Unspecified subluxation of right ulnohumeral joint, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S53.101S | Unspecified subluxation of right ulnohumeral joint, sequela                    | Diagnosis     | ICD-10-CM |
| S53.102  | Unspecified subluxation of left ulnohumeral joint                              | Diagnosis     | ICD-10-CM |
| S53.102A | Unspecified subluxation of left ulnohumeral joint, initial encounter           | Diagnosis     | ICD-10-CM |
| S53.102D | Unspecified subluxation of left ulnohumeral joint, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S53.102S | Unspecified subluxation of left ulnohumeral joint, sequela                     | Diagnosis     | ICD-10-CM |
| S53.103  | Unspecified subluxation of unspecified ulnohumeral joint                       | Diagnosis     | ICD-10-CM |
| S53.103A | Unspecified subluxation of unspecified ulnohumeral joint, initial encounter    | Diagnosis     | ICD-10-CM |
| S53.103D | Unspecified subluxation of unspecified ulnohumeral joint, subsequent encounter | Diagnosis     | ICD-10-CM |
| S53.103S | Unspecified subluxation of unspecified ulnohumeral joint, sequela              | Diagnosis     | ICD-10-CM |
| S53.104  | Unspecified dislocation of right ulnohumeral joint                             | Diagnosis     | ICD-10-CM |
| S53.104A | Unspecified dislocation of right ulnohumeral joint, initial encounter          | Diagnosis     | ICD-10-CM |
| S53.104D | Unspecified dislocation of right ulnohumeral joint, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S53.104S | Unspecified dislocation of right ulnohumeral joint, sequela                    | Diagnosis     | ICD-10-CM |
| S53.105  | Unspecified dislocation of left ulnohumeral joint                              | Diagnosis     | ICD-10-CM |
| S53.105A | Unspecified dislocation of left ulnohumeral joint, initial encounter           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S53.105D | Unspecified dislocation of left ulnohumeral joint, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S53.105S | Unspecified dislocation of left ulnohumeral joint, sequela                     | Diagnosis     | ICD-10-CM |
| S53.106  | Unspecified dislocation of unspecified ulnohumeral joint                       | Diagnosis     | ICD-10-CM |
| S53.106A | Unspecified dislocation of unspecified ulnohumeral joint, initial encounter    | Diagnosis     | ICD-10-CM |
| S53.106D | Unspecified dislocation of unspecified ulnohumeral joint, subsequent encounter | Diagnosis     | ICD-10-CM |
| S53.106S | Unspecified dislocation of unspecified ulnohumeral joint, sequela              | Diagnosis     | ICD-10-CM |
| S53.11   | Anterior subluxation and dislocation of ulnohumeral joint                      | Diagnosis     | ICD-10-CM |
| S53.111  | Anterior subluxation of right ulnohumeral joint                                | Diagnosis     | ICD-10-CM |
| S53.111A | Anterior subluxation of right ulnohumeral joint, initial encounter             | Diagnosis     | ICD-10-CM |
| S53.111D | Anterior subluxation of right ulnohumeral joint, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S53.111S | Anterior subluxation of right ulnohumeral joint, sequela                       | Diagnosis     | ICD-10-CM |
| S53.112  | Anterior subluxation of left ulnohumeral joint                                 | Diagnosis     | ICD-10-CM |
| S53.112A | Anterior subluxation of left ulnohumeral joint, initial encounter              | Diagnosis     | ICD-10-CM |
| S53.112D | Anterior subluxation of left ulnohumeral joint, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S53.112S | Anterior subluxation of left ulnohumeral joint, sequela                        | Diagnosis     | ICD-10-CM |
| S53.113  | Anterior subluxation of unspecified ulnohumeral joint                          | Diagnosis     | ICD-10-CM |
| S53.113A | Anterior subluxation of unspecified ulnohumeral joint, initial encounter       | Diagnosis     | ICD-10-CM |
| S53.113D | Anterior subluxation of unspecified ulnohumeral joint, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S53.113S | Anterior subluxation of unspecified ulnohumeral joint, sequela                 | Diagnosis     | ICD-10-CM |
| S53.114  | Anterior dislocation of right ulnohumeral joint                                | Diagnosis     | ICD-10-CM |
| S53.114A | Anterior dislocation of right ulnohumeral joint, initial encounter             | Diagnosis     | ICD-10-CM |
| S53.114D | Anterior dislocation of right ulnohumeral joint, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S53.114S | Anterior dislocation of right ulnohumeral joint, sequela                       | Diagnosis     | ICD-10-CM |
| S53.115  | Anterior dislocation of left ulnohumeral joint                                 | Diagnosis     | ICD-10-CM |
| S53.115A | Anterior dislocation of left ulnohumeral joint, initial encounter              | Diagnosis     | ICD-10-CM |
| S53.115D | Anterior dislocation of left ulnohumeral joint, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S53.115S | Anterior dislocation of left ulnohumeral joint, sequela                        | Diagnosis     | ICD-10-CM |
| S53.116  | Anterior dislocation of unspecified ulnohumeral joint                          | Diagnosis     | ICD-10-CM |
| S53.116A | Anterior dislocation of unspecified ulnohumeral joint, initial encounter       | Diagnosis     | ICD-10-CM |
| S53.116D | Anterior dislocation of unspecified ulnohumeral joint, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S53.116S | Anterior dislocation of unspecified ulnohumeral joint, sequela                 | Diagnosis     | ICD-10-CM |
| S53.12   | Posterior subluxation and dislocation of ulnohumeral joint                     | Diagnosis     | ICD-10-CM |
| S53.121  | Posterior subluxation of right ulnohumeral joint                               | Diagnosis     | ICD-10-CM |
| S53.121A | Posterior subluxation of right ulnohumeral joint, initial encounter            | Diagnosis     | ICD-10-CM |
| S53.121D | Posterior subluxation of right ulnohumeral joint, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S53.121S | Posterior subluxation of right ulnohumeral joint, sequela                      | Diagnosis     | ICD-10-CM |
| S53.122  | Posterior subluxation of left ulnohumeral joint                                | Diagnosis     | ICD-10-CM |
| S53.122A | Posterior subluxation of left ulnohumeral joint, initial encounter             | Diagnosis     | ICD-10-CM |
| S53.122D | Posterior subluxation of left ulnohumeral joint, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S53.122S | Posterior subluxation of left ulnohumeral joint, sequela                       | Diagnosis     | ICD-10-CM |
| S53.123  | Posterior subluxation of unspecified ulnohumeral joint                         | Diagnosis     | ICD-10-CM |
| S53.123A | Posterior subluxation of unspecified ulnohumeral joint, initial encounter      | Diagnosis     | ICD-10-CM |
| S53.123D | Posterior subluxation of unspecified ulnohumeral joint, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S53.123S | Posterior subluxation of unspecified ulnohumeral joint, sequela                | Diagnosis     | ICD-10-CM |
| S53.124  | Posterior dislocation of right ulnohumeral joint                               | Diagnosis     | ICD-10-CM |
| S53.124A | Posterior dislocation of right ulnohumeral joint, initial encounter            | Diagnosis     | ICD-10-CM |
| S53.124D | Posterior dislocation of right ulnohumeral joint, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S53.124S | Posterior dislocation of right ulnohumeral joint, sequela                      | Diagnosis     | ICD-10-CM |
| S53.125  | Posterior dislocation of left ulnohumeral joint                                | Diagnosis     | ICD-10-CM |
| S53.125A | Posterior dislocation of left ulnohumeral joint, initial encounter             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S53.125D | Posterior dislocation of left ulnohumeral joint, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S53.125S | Posterior dislocation of left ulnohumeral joint, sequela                     | Diagnosis     | ICD-10-CM |
| S53.126  | Posterior dislocation of unspecified ulnohumeral joint                       | Diagnosis     | ICD-10-CM |
| S53.126A | Posterior dislocation of unspecified ulnohumeral joint, initial encounter    | Diagnosis     | ICD-10-CM |
| S53.126D | Posterior dislocation of unspecified ulnohumeral joint, subsequent encounter | Diagnosis     | ICD-10-CM |
| S53.126S | Posterior dislocation of unspecified ulnohumeral joint, sequela              | Diagnosis     | ICD-10-CM |
| S53.13   | Medial subluxation and dislocation of ulnohumeral joint                      | Diagnosis     | ICD-10-CM |
| S53.131  | Medial subluxation of right ulnohumeral joint                                | Diagnosis     | ICD-10-CM |
| S53.131A | Medial subluxation of right ulnohumeral joint, initial encounter             | Diagnosis     | ICD-10-CM |
| S53.131D | Medial subluxation of right ulnohumeral joint, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S53.131S | Medial subluxation of right ulnohumeral joint, sequela                       | Diagnosis     | ICD-10-CM |
| S53.132  | Medial subluxation of left ulnohumeral joint                                 | Diagnosis     | ICD-10-CM |
| S53.132A | Medial subluxation of left ulnohumeral joint, initial encounter              | Diagnosis     | ICD-10-CM |
| S53.132D | Medial subluxation of left ulnohumeral joint, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S53.132S | Medial subluxation of left ulnohumeral joint, sequela                        | Diagnosis     | ICD-10-CM |
| S53.133  | Medial subluxation of unspecified ulnohumeral joint                          | Diagnosis     | ICD-10-CM |
| S53.133A | Medial subluxation of unspecified ulnohumeral joint, initial encounter       | Diagnosis     | ICD-10-CM |
| S53.133D | Medial subluxation of unspecified ulnohumeral joint, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S53.133S | Medial subluxation of unspecified ulnohumeral joint, sequela                 | Diagnosis     | ICD-10-CM |
| S53.134  | Medial dislocation of right ulnohumeral joint                                | Diagnosis     | ICD-10-CM |
| S53.134A | Medial dislocation of right ulnohumeral joint, initial encounter             | Diagnosis     | ICD-10-CM |
| S53.134D | Medial dislocation of right ulnohumeral joint, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S53.134S | Medial dislocation of right ulnohumeral joint, sequela                       | Diagnosis     | ICD-10-CM |
| S53.135  | Medial dislocation of left ulnohumeral joint                                 | Diagnosis     | ICD-10-CM |
| S53.135A | Medial dislocation of left ulnohumeral joint, initial encounter              | Diagnosis     | ICD-10-CM |
| S53.135D | Medial dislocation of left ulnohumeral joint, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S53.135S | Medial dislocation of left ulnohumeral joint, sequela                        | Diagnosis     | ICD-10-CM |
| S53.136  | Medial dislocation of unspecified ulnohumeral joint                          | Diagnosis     | ICD-10-CM |
| S53.136A | Medial dislocation of unspecified ulnohumeral joint, initial encounter       | Diagnosis     | ICD-10-CM |
| S53.136D | Medial dislocation of unspecified ulnohumeral joint, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S53.136S | Medial dislocation of unspecified ulnohumeral joint, sequela                 | Diagnosis     | ICD-10-CM |
| S53.14   | Lateral subluxation and dislocation of ulnohumeral joint                     | Diagnosis     | ICD-10-CM |
| S53.141  | Lateral subluxation of right ulnohumeral joint                               | Diagnosis     | ICD-10-CM |
| S53.141A | Lateral subluxation of right ulnohumeral joint, initial encounter            | Diagnosis     | ICD-10-CM |
| S53.141D | Lateral subluxation of right ulnohumeral joint, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S53.141S | Lateral subluxation of right ulnohumeral joint, sequela                      | Diagnosis     | ICD-10-CM |
| S53.142  | Lateral subluxation of left ulnohumeral joint                                | Diagnosis     | ICD-10-CM |
| S53.142A | Lateral subluxation of left ulnohumeral joint, initial encounter             | Diagnosis     | ICD-10-CM |
| S53.142D | Lateral subluxation of left ulnohumeral joint, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S53.142S | Lateral subluxation of left ulnohumeral joint, sequela                       | Diagnosis     | ICD-10-CM |
| S53.143  | Lateral subluxation of unspecified ulnohumeral joint                         | Diagnosis     | ICD-10-CM |
| S53.143A | Lateral subluxation of unspecified ulnohumeral joint, initial encounter      | Diagnosis     | ICD-10-CM |
| S53.143D | Lateral subluxation of unspecified ulnohumeral joint, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S53.143S | Lateral subluxation of unspecified ulnohumeral joint, sequela                | Diagnosis     | ICD-10-CM |
| S53.144  | Lateral dislocation of right ulnohumeral joint                               | Diagnosis     | ICD-10-CM |
| S53.144A | Lateral dislocation of right ulnohumeral joint, initial encounter            | Diagnosis     | ICD-10-CM |
| S53.144D | Lateral dislocation of right ulnohumeral joint, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S53.144S | Lateral dislocation of right ulnohumeral joint, sequela                      | Diagnosis     | ICD-10-CM |
| S53.145  | Lateral dislocation of left ulnohumeral joint                                | Diagnosis     | ICD-10-CM |
| S53.145A | Lateral dislocation of left ulnohumeral joint, initial encounter             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S53.145D | Lateral dislocation of left ulnohumeral joint, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S53.145S | Lateral dislocation of left ulnohumeral joint, sequela                            | Diagnosis     | ICD-10-CM |
| S53.146  | Lateral dislocation of unspecified ulnohumeral joint                              | Diagnosis     | ICD-10-CM |
| S53.146A | Lateral dislocation of unspecified ulnohumeral joint, initial encounter           | Diagnosis     | ICD-10-CM |
| S53.146D | Lateral dislocation of unspecified ulnohumeral joint, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S53.146S | Lateral dislocation of unspecified ulnohumeral joint, sequela                     | Diagnosis     | ICD-10-CM |
| S53.19   | Other subluxation and dislocation of ulnohumeral joint                            | Diagnosis     | ICD-10-CM |
| S53.191  | Other subluxation of right ulnohumeral joint                                      | Diagnosis     | ICD-10-CM |
| S53.191A | Other subluxation of right ulnohumeral joint, initial encounter                   | Diagnosis     | ICD-10-CM |
| S53.191D | Other subluxation of right ulnohumeral joint, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S53.191S | Other subluxation of right ulnohumeral joint, sequela                             | Diagnosis     | ICD-10-CM |
| S53.192  | Other subluxation of left ulnohumeral joint                                       | Diagnosis     | ICD-10-CM |
| S53.192A | Other subluxation of left ulnohumeral joint, initial encounter                    | Diagnosis     | ICD-10-CM |
| S53.192D | Other subluxation of left ulnohumeral joint, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S53.192S | Other subluxation of left ulnohumeral joint, sequela                              | Diagnosis     | ICD-10-CM |
| S53.193  | Other subluxation of unspecified ulnohumeral joint                                | Diagnosis     | ICD-10-CM |
| S53.193A | Other subluxation of unspecified ulnohumeral joint, initial encounter             | Diagnosis     | ICD-10-CM |
| S53.193D | Other subluxation of unspecified ulnohumeral joint, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S53.193S | Other subluxation of unspecified ulnohumeral joint, sequela                       | Diagnosis     | ICD-10-CM |
| S53.194  | Other dislocation of right ulnohumeral joint                                      | Diagnosis     | ICD-10-CM |
| S53.194A | Other dislocation of right ulnohumeral joint, initial encounter                   | Diagnosis     | ICD-10-CM |
| S53.194D | Other dislocation of right ulnohumeral joint, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S53.194S | Other dislocation of right ulnohumeral joint, sequela                             | Diagnosis     | ICD-10-CM |
| S53.195  | Other dislocation of left ulnohumeral joint                                       | Diagnosis     | ICD-10-CM |
| S53.195A | Other dislocation of left ulnohumeral joint, initial encounter                    | Diagnosis     | ICD-10-CM |
| S53.195D | Other dislocation of left ulnohumeral joint, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S53.195S | Other dislocation of left ulnohumeral joint, sequela                              | Diagnosis     | ICD-10-CM |
| S53.196  | Other dislocation of unspecified ulnohumeral joint                                | Diagnosis     | ICD-10-CM |
| S53.196A | Other dislocation of unspecified ulnohumeral joint, initial encounter             | Diagnosis     | ICD-10-CM |
| S53.196D | Other dislocation of unspecified ulnohumeral joint, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S53.196S | Other dislocation of unspecified ulnohumeral joint, sequela                       | Diagnosis     | ICD-10-CM |
| S53.2    | Traumatic rupture of radial collateral ligament                                   | Diagnosis     | ICD-10-CM |
| S53.20   | Traumatic rupture of unspecified radial collateral ligament                       | Diagnosis     | ICD-10-CM |
| S53.20XA | Traumatic rupture of unspecified radial collateral ligament, initial encounter    | Diagnosis     | ICD-10-CM |
| S53.20XD | Traumatic rupture of unspecified radial collateral ligament, subsequent encounter | Diagnosis     | ICD-10-CM |
| S53.20XS | Traumatic rupture of unspecified radial collateral ligament, sequela              | Diagnosis     | ICD-10-CM |
| S53.21   | Traumatic rupture of right radial collateral ligament                             | Diagnosis     | ICD-10-CM |
| S53.21XA | Traumatic rupture of right radial collateral ligament, initial encounter          | Diagnosis     | ICD-10-CM |
| S53.21XD | Traumatic rupture of right radial collateral ligament, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S53.21XS | Traumatic rupture of right radial collateral ligament, sequela                    | Diagnosis     | ICD-10-CM |
| S53.22   | Traumatic rupture of left radial collateral ligament                              | Diagnosis     | ICD-10-CM |
| S53.22XA | Traumatic rupture of left radial collateral ligament, initial encounter           | Diagnosis     | ICD-10-CM |
| S53.22XD | Traumatic rupture of left radial collateral ligament, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S53.22XS | Traumatic rupture of left radial collateral ligament, sequela                     | Diagnosis     | ICD-10-CM |
| S53.3    | Traumatic rupture of ulnar collateral ligament                                    | Diagnosis     | ICD-10-CM |
| S53.30   | Traumatic rupture of unspecified ulnar collateral ligament                        | Diagnosis     | ICD-10-CM |
| S53.30XA | Traumatic rupture of unspecified ulnar collateral ligament, initial encounter     | Diagnosis     | ICD-10-CM |
| S53.30XD | Traumatic rupture of unspecified ulnar collateral ligament, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S53.30XS | Traumatic rupture of unspecified ulnar collateral ligament, sequela               | Diagnosis     | ICD-10-CM |
| S53.31   | Traumatic rupture of right ulnar collateral ligament                              | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S53.31XA | Traumatic rupture of right ulnar collateral ligament, initial encounter    | Diagnosis     | ICD-10-CM |
| S53.31XD | Traumatic rupture of right ulnar collateral ligament, subsequent encounter | Diagnosis     | ICD-10-CM |
| S53.31XS | Traumatic rupture of right ulnar collateral ligament, sequela              | Diagnosis     | ICD-10-CM |
| S53.32   | Traumatic rupture of left ulnar collateral ligament                        | Diagnosis     | ICD-10-CM |
| S53.32XA | Traumatic rupture of left ulnar collateral ligament, initial encounter     | Diagnosis     | ICD-10-CM |
| S53.32XD | Traumatic rupture of left ulnar collateral ligament, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S53.32XS | Traumatic rupture of left ulnar collateral ligament, sequela               | Diagnosis     | ICD-10-CM |
| S53.4    | Sprain of elbow  | Diagnosis     | ICD-10-CM |
| S53.40   | Unspecified sprain of elbow  | Diagnosis     | ICD-10-CM |
| S53.401  | Unspecified sprain of right elbow  | Diagnosis     | ICD-10-CM |
| S53.401A | Unspecified sprain of right elbow, initial encounter                       | Diagnosis     | ICD-10-CM |
| S53.401D | Unspecified sprain of right elbow, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S53.401S | Unspecified sprain of right elbow, sequela                                 | Diagnosis     | ICD-10-CM |
| S53.402  | Unspecified sprain of left elbow   | Diagnosis     | ICD-10-CM |
| S53.402A | Unspecified sprain of left elbow, initial encounter                        | Diagnosis     | ICD-10-CM |
| S53.402D | Unspecified sprain of left elbow, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S53.402S | Unspecified sprain of left elbow, sequela                                  | Diagnosis     | ICD-10-CM |
| S53.409  | Unspecified sprain of unspecified elbow                                    | Diagnosis     | ICD-10-CM |
| S53.409A | Unspecified sprain of unspecified elbow, initial encounter                 | Diagnosis     | ICD-10-CM |
| S53.409D | Unspecified sprain of unspecified elbow, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S53.409S | Unspecified sprain of unspecified elbow, sequela                           | Diagnosis     | ICD-10-CM |
| S53.41   | Radiohumeral (joint) sprain  | Diagnosis     | ICD-10-CM |
| S53.411  | Radiohumeral (joint) sprain of right elbow                                 | Diagnosis     | ICD-10-CM |
| S53.411A | Radiohumeral (joint) sprain of right elbow, initial encounter              | Diagnosis     | ICD-10-CM |
| S53.411D | Radiohumeral (joint) sprain of right elbow, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S53.411S | Radiohumeral (joint) sprain of right elbow, sequela                        | Diagnosis     | ICD-10-CM |
| S53.412  | Radiohumeral (joint) sprain of left elbow                                  | Diagnosis     | ICD-10-CM |
| S53.412A | Radiohumeral (joint) sprain of left elbow, initial encounter               | Diagnosis     | ICD-10-CM |
| S53.412D | Radiohumeral (joint) sprain of left elbow, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S53.412S | Radiohumeral (joint) sprain of left elbow, sequela                         | Diagnosis     | ICD-10-CM |
| S53.419  | Radiohumeral (joint) sprain of unspecified elbow                           | Diagnosis     | ICD-10-CM |
| S53.419A | Radiohumeral (joint) sprain of unspecified elbow, initial encounter        | Diagnosis     | ICD-10-CM |
| S53.419D | Radiohumeral (joint) sprain of unspecified elbow, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S53.419S | Radiohumeral (joint) sprain of unspecified elbow, sequela                  | Diagnosis     | ICD-10-CM |
| S53.42   | Ulnohumeral (joint) sprain   | Diagnosis     | ICD-10-CM |
| S53.421  | Ulnohumeral (joint) sprain of right elbow                                  | Diagnosis     | ICD-10-CM |
| S53.421A | Ulnohumeral (joint) sprain of right elbow, initial encounter               | Diagnosis     | ICD-10-CM |
| S53.421D | Ulnohumeral (joint) sprain of right elbow, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S53.421S | Ulnohumeral (joint) sprain of right elbow, sequela                         | Diagnosis     | ICD-10-CM |
| S53.422  | Ulnohumeral (joint) sprain of left elbow                                   | Diagnosis     | ICD-10-CM |
| S53.422A | Ulnohumeral (joint) sprain of left elbow, initial encounter                | Diagnosis     | ICD-10-CM |
| S53.422D | Ulnohumeral (joint) sprain of left elbow, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S53.422S | Ulnohumeral (joint) sprain of left elbow, sequela                          | Diagnosis     | ICD-10-CM |
| S53.429  | Ulnohumeral (joint) sprain of unspecified elbow                            | Diagnosis     | ICD-10-CM |
| S53.429A | Ulnohumeral (joint) sprain of unspecified elbow, initial encounter         | Diagnosis     | ICD-10-CM |
| S53.429D | Ulnohumeral (joint) sprain of unspecified elbow, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S53.429S | Ulnohumeral (joint) sprain of unspecified elbow, sequela                   | Diagnosis     | ICD-10-CM |
| S53.43   | Radial collateral ligament sprain  | Diagnosis     | ICD-10-CM |
| S53.431  | Radial collateral ligament sprain of right elbow                           | Diagnosis     | ICD-10-CM |
| S53.431A | Radial collateral ligament sprain of right elbow, initial encounter        | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S53.431D | Radial collateral ligament sprain of right elbow, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S53.431S | Radial collateral ligament sprain of right elbow, sequela                     | Diagnosis     | ICD-10-CM |
| S53.432  | Radial collateral ligament sprain of left elbow                               | Diagnosis     | ICD-10-CM |
| S53.432A | Radial collateral ligament sprain of left elbow, initial encounter            | Diagnosis     | ICD-10-CM |
| S53.432D | Radial collateral ligament sprain of left elbow, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S53.432S | Radial collateral ligament sprain of left elbow, sequela                      | Diagnosis     | ICD-10-CM |
| S53.439  | Radial collateral ligament sprain of unspecified elbow                        | Diagnosis     | ICD-10-CM |
| S53.439A | Radial collateral ligament sprain of unspecified elbow, initial encounter     | Diagnosis     | ICD-10-CM |
| S53.439D | Radial collateral ligament sprain of unspecified elbow, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S53.439S | Radial collateral ligament sprain of unspecified elbow, sequela               | Diagnosis     | ICD-10-CM |
| S53.44   | Ulnar collateral ligament sprain  | Diagnosis     | ICD-10-CM |
| S53.441  | Ulnar collateral ligament sprain of right elbow                               | Diagnosis     | ICD-10-CM |
| S53.441A | Ulnar collateral ligament sprain of right elbow, initial encounter            | Diagnosis     | ICD-10-CM |
| S53.441D | Ulnar collateral ligament sprain of right elbow, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S53.441S | Ulnar collateral ligament sprain of right elbow, sequela                      | Diagnosis     | ICD-10-CM |
| S53.442  | Ulnar collateral ligament sprain of left elbow                                | Diagnosis     | ICD-10-CM |
| S53.442A | Ulnar collateral ligament sprain of left elbow, initial encounter             | Diagnosis     | ICD-10-CM |
| S53.442D | Ulnar collateral ligament sprain of left elbow, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S53.442S | Ulnar collateral ligament sprain of left elbow, sequela                       | Diagnosis     | ICD-10-CM |
| S53.449  | Ulnar collateral ligament sprain of unspecified elbow                         | Diagnosis     | ICD-10-CM |
| S53.449A | Ulnar collateral ligament sprain of unspecified elbow, initial encounter      | Diagnosis     | ICD-10-CM |
| S53.449D | Ulnar collateral ligament sprain of unspecified elbow, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S53.449S | Ulnar collateral ligament sprain of unspecified elbow, sequela                | Diagnosis     | ICD-10-CM |
| S53.49   | Other sprain of elbow   | Diagnosis     | ICD-10-CM |
| S53.491  | Other sprain of right elbow   | Diagnosis     | ICD-10-CM |
| S53.491A | Other sprain of right elbow, initial encounter                                | Diagnosis     | ICD-10-CM |
| S53.491D | Other sprain of right elbow, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S53.491S | Other sprain of right elbow, sequela  | Diagnosis     | ICD-10-CM |
| S53.492  | Other sprain of left elbow  | Diagnosis     | ICD-10-CM |
| S53.492A | Other sprain of left elbow, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S53.492D | Other sprain of left elbow, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S53.492S | Other sprain of left elbow, sequela   | Diagnosis     | ICD-10-CM |
| S53.499  | Other sprain of unspecified elbow   | Diagnosis     | ICD-10-CM |
| S53.499A | Other sprain of unspecified elbow, initial encounter                          | Diagnosis     | ICD-10-CM |
| S53.499D | Other sprain of unspecified elbow, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S53.499S | Other sprain of unspecified elbow, sequela                                    | Diagnosis     | ICD-10-CM |
| S54      | Injury of nerves at forearm level   | Diagnosis     | ICD-10-CM |
| S54.0    | Injury of ulnar nerve at forearm level  | Diagnosis     | ICD-10-CM |
| S54.00   | Injury of ulnar nerve at forearm level, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S54.00XA | Injury of ulnar nerve at forearm level, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S54.00XD | Injury of ulnar nerve at forearm level, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S54.00XS | Injury of ulnar nerve at forearm level, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S54.01   | Injury of ulnar nerve at forearm level, right arm                             | Diagnosis     | ICD-10-CM |
| S54.01XA | Injury of ulnar nerve at forearm level, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S54.01XD | Injury of ulnar nerve at forearm level, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S54.01XS | Injury of ulnar nerve at forearm level, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S54.02   | Injury of ulnar nerve at forearm level, left arm                              | Diagnosis     | ICD-10-CM |
| S54.02XA | Injury of ulnar nerve at forearm level, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S54.02XD | Injury of ulnar nerve at forearm level, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S54.02XS | Injury of ulnar nerve at forearm level, left arm, sequela                     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S54.1    | Injury of median nerve at forearm level   | Diagnosis     | ICD-10-CM |
| S54.10   | Injury of median nerve at forearm level, unspecified arm                                  | Diagnosis     | ICD-10-CM |
| S54.10XA | Injury of median nerve at forearm level, unspecified arm, initial encounter               | Diagnosis     | ICD-10-CM |
| S54.10XD | Injury of median nerve at forearm level, unspecified arm, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S54.10XS | Injury of median nerve at forearm level, unspecified arm, sequela                         | Diagnosis     | ICD-10-CM |
| S54.11   | Injury of median nerve at forearm level, right arm  | Diagnosis     | ICD-10-CM |
| S54.11XA | Injury of median nerve at forearm level, right arm, initial encounter                     | Diagnosis     | ICD-10-CM |
| S54.11XD | Injury of median nerve at forearm level, right arm, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S54.11XS | Injury of median nerve at forearm level, right arm, sequela                               | Diagnosis     | ICD-10-CM |
| S54.12   | Injury of median nerve at forearm level, left arm   | Diagnosis     | ICD-10-CM |
| S54.12XA | Injury of median nerve at forearm level, left arm, initial encounter                      | Diagnosis     | ICD-10-CM |
| S54.12XD | Injury of median nerve at forearm level, left arm, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S54.12XS | Injury of median nerve at forearm level, left arm, sequela                                | Diagnosis     | ICD-10-CM |
| S54.2    | Injury of radial nerve at forearm level   | Diagnosis     | ICD-10-CM |
| S54.20   | Injury of radial nerve at forearm level, unspecified arm                                  | Diagnosis     | ICD-10-CM |
| S54.20XA | Injury of radial nerve at forearm level, unspecified arm, initial encounter               | Diagnosis     | ICD-10-CM |
| S54.20XD | Injury of radial nerve at forearm level, unspecified arm, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S54.20XS | Injury of radial nerve at forearm level, unspecified arm, sequela                         | Diagnosis     | ICD-10-CM |
| S54.21   | Injury of radial nerve at forearm level, right arm  | Diagnosis     | ICD-10-CM |
| S54.21XA | Injury of radial nerve at forearm level, right arm, initial encounter                     | Diagnosis     | ICD-10-CM |
| S54.21XD | Injury of radial nerve at forearm level, right arm, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S54.21XS | Injury of radial nerve at forearm level, right arm, sequela                               | Diagnosis     | ICD-10-CM |
| S54.22   | Injury of radial nerve at forearm level, left arm   | Diagnosis     | ICD-10-CM |
| S54.22XA | Injury of radial nerve at forearm level, left arm, initial encounter                      | Diagnosis     | ICD-10-CM |
| S54.22XD | Injury of radial nerve at forearm level, left arm, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S54.22XS | Injury of radial nerve at forearm level, left arm, sequela                                | Diagnosis     | ICD-10-CM |
| S54.3    | Injury of cutaneous sensory nerve at forearm level  | Diagnosis     | ICD-10-CM |
| S54.30   | Injury of cutaneous sensory nerve at forearm level, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S54.30XA | Injury of cutaneous sensory nerve at forearm level, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S54.30XD | Injury of cutaneous sensory nerve at forearm level, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S54.30XS | Injury of cutaneous sensory nerve at forearm level, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S54.31   | Injury of cutaneous sensory nerve at forearm level, right arm                             | Diagnosis     | ICD-10-CM |
| S54.31XA | Injury of cutaneous sensory nerve at forearm level, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S54.31XD | Injury of cutaneous sensory nerve at forearm level, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S54.31XS | Injury of cutaneous sensory nerve at forearm level, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S54.32   | Injury of cutaneous sensory nerve at forearm level, left arm                              | Diagnosis     | ICD-10-CM |
| S54.32XA | Injury of cutaneous sensory nerve at forearm level, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S54.32XD | Injury of cutaneous sensory nerve at forearm level, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S54.32XS | Injury of cutaneous sensory nerve at forearm level, left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S54.8    | Injury of other nerves at forearm level   | Diagnosis     | ICD-10-CM |
| S54.8X   | Injury of other nerves at forearm level   | Diagnosis     | ICD-10-CM |
| S54.8X1  | Injury of other nerves at forearm level, right arm  | Diagnosis     | ICD-10-CM |
| S54.8X1A | Injury of other nerves at forearm level, right arm, initial encounter                     | Diagnosis     | ICD-10-CM |
| S54.8X1D | Injury of other nerves at forearm level, right arm, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S54.8X1S | Injury of other nerves at forearm level, right arm, sequela                               | Diagnosis     | ICD-10-CM |
| S54.8X2  | Injury of other nerves at forearm level, left arm   | Diagnosis     | ICD-10-CM |
| S54.8X2A | Injury of other nerves at forearm level, left arm, initial encounter                      | Diagnosis     | ICD-10-CM |
| S54.8X2D | Injury of other nerves at forearm level, left arm, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S54.8X2S | Injury of other nerves at forearm level, left arm, sequela                                | Diagnosis     | ICD-10-CM |
| S54.8X9  | Injury of other nerves at forearm level, unspecified arm                                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S54.8X9A | Injury of other nerves at forearm level, unspecified arm, initial encounter                | Diagnosis     | ICD-10-CM |
| S54.8X9D | Injury of other nerves at forearm level, unspecified arm, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S54.8X9S | Injury of other nerves at forearm level, unspecified arm, sequela                          | Diagnosis     | ICD-10-CM |
| S54.9    | Injury of unspecified nerve at forearm level   | Diagnosis     | ICD-10-CM |
| S54.90   | Injury of unspecified nerve at forearm level, unspecified arm                              | Diagnosis     | ICD-10-CM |
| S54.90XA | Injury of unspecified nerve at forearm level, unspecified arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S54.90XD | Injury of unspecified nerve at forearm level, unspecified arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S54.90XS | Injury of unspecified nerve at forearm level, unspecified arm, sequela                     | Diagnosis     | ICD-10-CM |
| S54.91   | Injury of unspecified nerve at forearm level, right arm                                    | Diagnosis     | ICD-10-CM |
| S54.91XA | Injury of unspecified nerve at forearm level, right arm, initial encounter                 | Diagnosis     | ICD-10-CM |
| S54.91XD | Injury of unspecified nerve at forearm level, right arm, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S54.91XS | Injury of unspecified nerve at forearm level, right arm, sequela                           | Diagnosis     | ICD-10-CM |
| S54.92   | Injury of unspecified nerve at forearm level, left arm                                     | Diagnosis     | ICD-10-CM |
| S54.92XA | Injury of unspecified nerve at forearm level, left arm, initial encounter                  | Diagnosis     | ICD-10-CM |
| S54.92XD | Injury of unspecified nerve at forearm level, left arm, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S54.92XS | Injury of unspecified nerve at forearm level, left arm, sequela                            | Diagnosis     | ICD-10-CM |
| S55      | Injury of blood vessels at forearm level   | Diagnosis     | ICD-10-CM |
| S55.0    | Injury of ulnar artery at forearm level  | Diagnosis     | ICD-10-CM |
| S55.00   | Unspecified injury of ulnar artery at forearm level  | Diagnosis     | ICD-10-CM |
| S55.001  | Unspecified injury of ulnar artery at forearm level, right arm                             | Diagnosis     | ICD-10-CM |
| S55.001A | Unspecified injury of ulnar artery at forearm level, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S55.001D | Unspecified injury of ulnar artery at forearm level, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S55.001S | Unspecified injury of ulnar artery at forearm level, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S55.002  | Unspecified injury of ulnar artery at forearm level, left arm                              | Diagnosis     | ICD-10-CM |
| S55.002A | Unspecified injury of ulnar artery at forearm level, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S55.002D | Unspecified injury of ulnar artery at forearm level, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S55.002S | Unspecified injury of ulnar artery at forearm level, left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S55.009  | Unspecified injury of ulnar artery at forearm level, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S55.009A | Unspecified injury of ulnar artery at forearm level, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S55.009D | Unspecified injury of ulnar artery at forearm level, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S55.009S | Unspecified injury of ulnar artery at forearm level, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S55.01   | Laceration of ulnar artery at forearm level  | Diagnosis     | ICD-10-CM |
| S55.011  | Laceration of ulnar artery at forearm level, right arm                                     | Diagnosis     | ICD-10-CM |
| S55.011A | Laceration of ulnar artery at forearm level, right arm, initial encounter                  | Diagnosis     | ICD-10-CM |
| S55.011D | Laceration of ulnar artery at forearm level, right arm, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S55.011S | Laceration of ulnar artery at forearm level, right arm, sequela                            | Diagnosis     | ICD-10-CM |
| S55.012  | Laceration of ulnar artery at forearm level, left arm                                      | Diagnosis     | ICD-10-CM |
| S55.012A | Laceration of ulnar artery at forearm level, left arm, initial encounter                   | Diagnosis     | ICD-10-CM |
| S55.012D | Laceration of ulnar artery at forearm level, left arm, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S55.012S | Laceration of ulnar artery at forearm level, left arm, sequela                             | Diagnosis     | ICD-10-CM |
| S55.019  | Laceration of ulnar artery at forearm level, unspecified arm                               | Diagnosis     | ICD-10-CM |
| S55.019A | Laceration of ulnar artery at forearm level, unspecified arm, initial encounter            | Diagnosis     | ICD-10-CM |
| S55.019D | Laceration of ulnar artery at forearm level, unspecified arm, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S55.019S | Laceration of ulnar artery at forearm level, unspecified arm, sequela                      | Diagnosis     | ICD-10-CM |
| S55.09   | Other specified injury of ulnar artery at forearm level                                    | Diagnosis     | ICD-10-CM |
| S55.091  | Other specified injury of ulnar artery at forearm level, right arm                         | Diagnosis     | ICD-10-CM |
| S55.091A | Other specified injury of ulnar artery at forearm level, right arm, initial encounter      | Diagnosis     | ICD-10-CM |
| S55.091D | Other specified injury of ulnar artery at forearm level, right arm, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S55.091S | Other specified injury of ulnar artery at forearm level, right arm, sequela                | Diagnosis     | ICD-10-CM |
| S55.092  | Other specified injury of ulnar artery at forearm level, left arm                          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S55.092A | Other specified injury of ulnar artery at forearm level, left arm, initial encounter            | Diagnosis     | ICD-10-CM |
| S55.092D | Other specified injury of ulnar artery at forearm level, left arm, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S55.092S | Other specified injury of ulnar artery at forearm level, left arm, sequela                      | Diagnosis     | ICD-10-CM |
| S55.099  | Other specified injury of ulnar artery at forearm level, unspecified arm                        | Diagnosis     | ICD-10-CM |
| S55.099A | Other specified injury of ulnar artery at forearm level, unspecified arm, initial encounter     | Diagnosis     | ICD-10-CM |
| S55.099D | Other specified injury of ulnar artery at forearm level, unspecified arm, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S55.099S | Other specified injury of ulnar artery at forearm level, unspecified arm, sequela               | Diagnosis     | ICD-10-CM |
| S55.1    | Injury of radial artery at forearm level  | Diagnosis     | ICD-10-CM |
| S55.10   | Unspecified injury of radial artery at forearm level  | Diagnosis     | ICD-10-CM |
| S55.101  | Unspecified injury of radial artery at forearm level, right arm                                 | Diagnosis     | ICD-10-CM |
| S55.101A | Unspecified injury of radial artery at forearm level, right arm, initial encounter              | Diagnosis     | ICD-10-CM |
| S55.101D | Unspecified injury of radial artery at forearm level, right arm, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S55.101S | Unspecified injury of radial artery at forearm level, right arm, sequela                        | Diagnosis     | ICD-10-CM |
| S55.102  | Unspecified injury of radial artery at forearm level, left arm                                  | Diagnosis     | ICD-10-CM |
| S55.102A | Unspecified injury of radial artery at forearm level, left arm, initial encounter               | Diagnosis     | ICD-10-CM |
| S55.102D | Unspecified injury of radial artery at forearm level, left arm, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S55.102S | Unspecified injury of radial artery at forearm level, left arm, sequela                         | Diagnosis     | ICD-10-CM |
| S55.109  | Unspecified injury of radial artery at forearm level, unspecified arm                           | Diagnosis     | ICD-10-CM |
| S55.109A | Unspecified injury of radial artery at forearm level, unspecified arm, initial encounter        | Diagnosis     | ICD-10-CM |
| S55.109D | Unspecified injury of radial artery at forearm level, unspecified arm, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S55.109S | Unspecified injury of radial artery at forearm level, unspecified arm, sequela                  | Diagnosis     | ICD-10-CM |
| S55.11   | Laceration of radial artery at forearm level  | Diagnosis     | ICD-10-CM |
| S55.111  | Laceration of radial artery at forearm level, right arm   | Diagnosis     | ICD-10-CM |
| S55.111A | Laceration of radial artery at forearm level, right arm, initial encounter                      | Diagnosis     | ICD-10-CM |
| S55.111D | Laceration of radial artery at forearm level, right arm, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S55.111S | Laceration of radial artery at forearm level, right arm, sequela                                | Diagnosis     | ICD-10-CM |
| S55.112  | Laceration of radial artery at forearm level, left arm  | Diagnosis     | ICD-10-CM |
| S55.112A | Laceration of radial artery at forearm level, left arm, initial encounter                       | Diagnosis     | ICD-10-CM |
| S55.112D | Laceration of radial artery at forearm level, left arm, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S55.112S | Laceration of radial artery at forearm level, left arm, sequela                                 | Diagnosis     | ICD-10-CM |
| S55.119  | Laceration of radial artery at forearm level, unspecified arm                                   | Diagnosis     | ICD-10-CM |
| S55.119A | Laceration of radial artery at forearm level, unspecified arm, initial encounter                | Diagnosis     | ICD-10-CM |
| S55.119D | Laceration of radial artery at forearm level, unspecified arm, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S55.119S | Laceration of radial artery at forearm level, unspecified arm, sequela                          | Diagnosis     | ICD-10-CM |
| S55.19   | Other specified injury of radial artery at forearm level  | Diagnosis     | ICD-10-CM |
| S55.191  | Other specified injury of radial artery at forearm level, right arm                             | Diagnosis     | ICD-10-CM |
| S55.191A | Other specified injury of radial artery at forearm level, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S55.191D | Other specified injury of radial artery at forearm level, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S55.191S | Other specified injury of radial artery at forearm level, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S55.192  | Other specified injury of radial artery at forearm level, left arm                              | Diagnosis     | ICD-10-CM |
| S55.192A | Other specified injury of radial artery at forearm level, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S55.192D | Other specified injury of radial artery at forearm level, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S55.192S | Other specified injury of radial artery at forearm level, left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S55.199  | Other specified injury of radial artery at forearm level, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S55.199A | Other specified injury of radial artery at forearm level, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S55.199D | Other specified injury of radial artery at forearm level, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S55.199S | Other specified injury of radial artery at forearm level, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S55.2    | Injury of vein at forearm level   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S55.20   | Unspecified injury of vein at forearm level   | Diagnosis     | ICD-10-CM |
| S55.201  | Unspecified injury of vein at forearm level, right arm                                      | Diagnosis     | ICD-10-CM |
| S55.201A | Unspecified injury of vein at forearm level, right arm, initial encounter                   | Diagnosis     | ICD-10-CM |
| S55.201D | Unspecified injury of vein at forearm level, right arm, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S55.201S | Unspecified injury of vein at forearm level, right arm, sequela                             | Diagnosis     | ICD-10-CM |
| S55.202  | Unspecified injury of vein at forearm level, left arm                                       | Diagnosis     | ICD-10-CM |
| S55.202A | Unspecified injury of vein at forearm level, left arm, initial encounter                    | Diagnosis     | ICD-10-CM |
| S55.202D | Unspecified injury of vein at forearm level, left arm, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S55.202S | Unspecified injury of vein at forearm level, left arm, sequela                              | Diagnosis     | ICD-10-CM |
| S55.209  | Unspecified injury of vein at forearm level, unspecified arm                                | Diagnosis     | ICD-10-CM |
| S55.209A | Unspecified injury of vein at forearm level, unspecified arm, initial encounter             | Diagnosis     | ICD-10-CM |
| S55.209D | Unspecified injury of vein at forearm level, unspecified arm, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S55.209S | Unspecified injury of vein at forearm level, unspecified arm, sequela                       | Diagnosis     | ICD-10-CM |
| S55.21   | Laceration of vein at forearm level   | Diagnosis     | ICD-10-CM |
| S55.211  | Laceration of vein at forearm level, right arm  | Diagnosis     | ICD-10-CM |
| S55.211A | Laceration of vein at forearm level, right arm, initial encounter                           | Diagnosis     | ICD-10-CM |
| S55.211D | Laceration of vein at forearm level, right arm, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S55.211S | Laceration of vein at forearm level, right arm, sequela                                     | Diagnosis     | ICD-10-CM |
| S55.212  | Laceration of vein at forearm level, left arm   | Diagnosis     | ICD-10-CM |
| S55.212A | Laceration of vein at forearm level, left arm, initial encounter                            | Diagnosis     | ICD-10-CM |
| S55.212D | Laceration of vein at forearm level, left arm, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S55.212S | Laceration of vein at forearm level, left arm, sequela                                      | Diagnosis     | ICD-10-CM |
| S55.219  | Laceration of vein at forearm level, unspecified arm  | Diagnosis     | ICD-10-CM |
| S55.219A | Laceration of vein at forearm level, unspecified arm, initial encounter                     | Diagnosis     | ICD-10-CM |
| S55.219D | Laceration of vein at forearm level, unspecified arm, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S55.219S | Laceration of vein at forearm level, unspecified arm, sequela                               | Diagnosis     | ICD-10-CM |
| S55.29   | Other specified injury of vein at forearm level   | Diagnosis     | ICD-10-CM |
| S55.291  | Other specified injury of vein at forearm level, right arm                                  | Diagnosis     | ICD-10-CM |
| S55.291A | Other specified injury of vein at forearm level, right arm, initial encounter               | Diagnosis     | ICD-10-CM |
| S55.291D | Other specified injury of vein at forearm level, right arm, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S55.291S | Other specified injury of vein at forearm level, right arm, sequela                         | Diagnosis     | ICD-10-CM |
| S55.292  | Other specified injury of vein at forearm level, left arm                                   | Diagnosis     | ICD-10-CM |
| S55.292A | Other specified injury of vein at forearm level, left arm, initial encounter                | Diagnosis     | ICD-10-CM |
| S55.292D | Other specified injury of vein at forearm level, left arm, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S55.292S | Other specified injury of vein at forearm level, left arm, sequela                          | Diagnosis     | ICD-10-CM |
| S55.299  | Other specified injury of vein at forearm level, unspecified arm                            | Diagnosis     | ICD-10-CM |
| S55.299A | Other specified injury of vein at forearm level, unspecified arm, initial encounter         | Diagnosis     | ICD-10-CM |
| S55.299D | Other specified injury of vein at forearm level, unspecified arm, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S55.299S | Other specified injury of vein at forearm level, unspecified arm, sequela                   | Diagnosis     | ICD-10-CM |
| S55.8    | Injury of other blood vessels at forearm level  | Diagnosis     | ICD-10-CM |
| S55.80   | Unspecified injury of other blood vessels at forearm level                                  | Diagnosis     | ICD-10-CM |
| S55.801  | Unspecified injury of other blood vessels at forearm level, right arm                       | Diagnosis     | ICD-10-CM |
| S55.801A | Unspecified injury of other blood vessels at forearm level, right arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S55.801D | Unspecified injury of other blood vessels at forearm level, right arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S55.801S | Unspecified injury of other blood vessels at forearm level, right arm, sequela              | Diagnosis     | ICD-10-CM |
| S55.802  | Unspecified injury of other blood vessels at forearm level, left arm                        | Diagnosis     | ICD-10-CM |
| S55.802A | Unspecified injury of other blood vessels at forearm level, left arm, initial encounter     | Diagnosis     | ICD-10-CM |
| S55.802D | Unspecified injury of other blood vessels at forearm level, left arm, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S55.802S | Unspecified injury of other blood vessels at forearm level, left arm, sequela               | Diagnosis     | ICD-10-CM |
| S55.809  | Unspecified injury of other blood vessels at forearm level, unspecified arm                 | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S55.809A | Unspecified injury of other blood vessels at forearm level, unspecified arm, initial encounter        | Diagnosis     | ICD-10-CM |
| S55.809D | Unspecified injury of other blood vessels at forearm level, unspecified arm, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S55.809S | Unspecified injury of other blood vessels at forearm level, unspecified arm, sequela                  | Diagnosis     | ICD-10-CM |
| S55.81   | Laceration of other blood vessels at forearm level  | Diagnosis     | ICD-10-CM |
| S55.811  | Laceration of other blood vessels at forearm level, right arm   | Diagnosis     | ICD-10-CM |
| S55.811A | Laceration of other blood vessels at forearm level, right arm, initial encounter                      | Diagnosis     | ICD-10-CM |
| S55.811D | Laceration of other blood vessels at forearm level, right arm, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S55.811S | Laceration of other blood vessels at forearm level, right arm, sequela                                | Diagnosis     | ICD-10-CM |
| S55.812  | Laceration of other blood vessels at forearm level, left arm  | Diagnosis     | ICD-10-CM |
| S55.812A | Laceration of other blood vessels at forearm level, left arm, initial encounter                       | Diagnosis     | ICD-10-CM |
| S55.812D | Laceration of other blood vessels at forearm level, left arm, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S55.812S | Laceration of other blood vessels at forearm level, left arm, sequela                                 | Diagnosis     | ICD-10-CM |
| S55.819  | Laceration of other blood vessels at forearm level, unspecified arm                                   | Diagnosis     | ICD-10-CM |
| S55.819A | Laceration of other blood vessels at forearm level, unspecified arm, initial encounter                | Diagnosis     | ICD-10-CM |
| S55.819D | Laceration of other blood vessels at forearm level, unspecified arm, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S55.819S | Laceration of other blood vessels at forearm level, unspecified arm, sequela                          | Diagnosis     | ICD-10-CM |
| S55.89   | Other specified injury of other blood vessels at forearm level  | Diagnosis     | ICD-10-CM |
| S55.891  | Other specified injury of other blood vessels at forearm level, right arm                             | Diagnosis     | ICD-10-CM |
| S55.891A | Other specified injury of other blood vessels at forearm level, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S55.891D | Other specified injury of other blood vessels at forearm level, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S55.891S | Other specified injury of other blood vessels at forearm level, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S55.892  | Other specified injury of other blood vessels at forearm level, left arm                              | Diagnosis     | ICD-10-CM |
| S55.892A | Other specified injury of other blood vessels at forearm level, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S55.892D | Other specified injury of other blood vessels at forearm level, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S55.892S | Other specified injury of other blood vessels at forearm level, left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S55.899  | Other specified injury of other blood vessels at forearm level, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S55.899A | Other specified injury of other blood vessels at forearm level, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S55.899D | Other specified injury of other blood vessels at forearm level, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S55.899S | Other specified injury of other blood vessels at forearm level, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S55.9    | Injury of unspecified blood vessel at forearm level   | Diagnosis     | ICD-10-CM |
| S55.90   | Unspecified injury of unspecified blood vessel at forearm level                                       | Diagnosis     | ICD-10-CM |
| S55.901  | Unspecified injury of unspecified blood vessel at forearm level, right arm                            | Diagnosis     | ICD-10-CM |
| S55.901A | Unspecified injury of unspecified blood vessel at forearm level, right arm, initial encounter         | Diagnosis     | ICD-10-CM |
| S55.901D | Unspecified injury of unspecified blood vessel at forearm level, right arm, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S55.901S | Unspecified injury of unspecified blood vessel at forearm level, right arm, sequela                   | Diagnosis     | ICD-10-CM |
| S55.902  | Unspecified injury of unspecified blood vessel at forearm level, left arm                             | Diagnosis     | ICD-10-CM |
| S55.902A | Unspecified injury of unspecified blood vessel at forearm level, left arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S55.902D | Unspecified injury of unspecified blood vessel at forearm level, left arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S55.902S | Unspecified injury of unspecified blood vessel at forearm level, left arm, sequela                    | Diagnosis     | ICD-10-CM |
| S55.909  | Unspecified injury of unspecified blood vessel at forearm level, unspecified arm                      | Diagnosis     | ICD-10-CM |
| S55.909A | Unspecified injury of unspecified blood vessel at forearm level, unspecified arm, initial encounter   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S55.909D | Unspecified injury of unspecified blood vessel at forearm level, unspecified arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S55.909S | Unspecified injury of unspecified blood vessel at forearm level, unspecified arm, sequela                    | Diagnosis     | ICD-10-CM |
| S55.91   | Laceration of unspecified blood vessel at forearm level  | Diagnosis     | ICD-10-CM |
| S55.911  | Laceration of unspecified blood vessel at forearm level, right arm   | Diagnosis     | ICD-10-CM |
| S55.911A | Laceration of unspecified blood vessel at forearm level, right arm, initial encounter                        | Diagnosis     | ICD-10-CM |
| S55.911D | Laceration of unspecified blood vessel at forearm level, right arm, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S55.911S | Laceration of unspecified blood vessel at forearm level, right arm, sequela                                  | Diagnosis     | ICD-10-CM |
| S55.912  | Laceration of unspecified blood vessel at forearm level, left arm  | Diagnosis     | ICD-10-CM |
| S55.912A | Laceration of unspecified blood vessel at forearm level, left arm, initial encounter                         | Diagnosis     | ICD-10-CM |
| S55.912D | Laceration of unspecified blood vessel at forearm level, left arm, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S55.912S | Laceration of unspecified blood vessel at forearm level, left arm, sequela                                   | Diagnosis     | ICD-10-CM |
| S55.919  | Laceration of unspecified blood vessel at forearm level, unspecified arm                                     | Diagnosis     | ICD-10-CM |
| S55.919A | Laceration of unspecified blood vessel at forearm level, unspecified arm, initial encounter                  | Diagnosis     | ICD-10-CM |
| S55.919D | Laceration of unspecified blood vessel at forearm level, unspecified arm, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S55.919S | Laceration of unspecified blood vessel at forearm level, unspecified arm, sequela                            | Diagnosis     | ICD-10-CM |
| S55.99   | Other specified injury of unspecified blood vessel at forearm level  | Diagnosis     | ICD-10-CM |
| S55.991  | Other specified injury of unspecified blood vessel at forearm level, right arm                               | Diagnosis     | ICD-10-CM |
| S55.991A | Other specified injury of unspecified blood vessel at forearm level, right arm, initial encounter            | Diagnosis     | ICD-10-CM |
| S55.991D | Other specified injury of unspecified blood vessel at forearm level, right arm, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S55.991S | Other specified injury of unspecified blood vessel at forearm level, right arm, sequela                      | Diagnosis     | ICD-10-CM |
| S55.992  | Other specified injury of unspecified blood vessel at forearm level, left arm                                | Diagnosis     | ICD-10-CM |
| S55.992A | Other specified injury of unspecified blood vessel at forearm level, left arm, initial encounter             | Diagnosis     | ICD-10-CM |
| S55.992D | Other specified injury of unspecified blood vessel at forearm level, left arm, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S55.992S | Other specified injury of unspecified blood vessel at forearm level, left arm, sequela                       | Diagnosis     | ICD-10-CM |
| S55.999  | Other specified injury of unspecified blood vessel at forearm level, unspecified arm                         | Diagnosis     | ICD-10-CM |
| S55.999A | Other specified injury of unspecified blood vessel at forearm level, unspecified arm, initial encounter      | Diagnosis     | ICD-10-CM |
| S55.999D | Other specified injury of unspecified blood vessel at forearm level, unspecified arm, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S55.999S | Other specified injury of unspecified blood vessel at forearm level, unspecified arm, sequela                | Diagnosis     | ICD-10-CM |
| S56      | Injury of muscle, fascia and tendon at forearm level   | Diagnosis     | ICD-10-CM |
| S56.0    | Injury of flexor muscle, fascia and tendon of thumb at forearm level   | Diagnosis     | ICD-10-CM |
| S56.00   | Unspecified injury of flexor muscle, fascia and tendon of thumb at forearm level                             | Diagnosis     | ICD-10-CM |
| S56.001  | Unspecified injury of flexor muscle, fascia and tendon of right thumb at forearm level                       | Diagnosis     | ICD-10-CM |
| S56.001A | Unspecified injury of flexor muscle, fascia and tendon of right thumb at forearm level, initial encounter    | Diagnosis     | ICD-10-CM |
| S56.001D | Unspecified injury of flexor muscle, fascia and tendon of right thumb at forearm level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.001S | Unspecified injury of flexor muscle, fascia and tendon of right thumb at forearm level, sequela              | Diagnosis     | ICD-10-CM |
| S56.002  | Unspecified injury of flexor muscle, fascia and tendon of left thumb at forearm level                        | Diagnosis     | ICD-10-CM |
| S56.002A | Unspecified injury of flexor muscle, fascia and tendon of left thumb at forearm level, initial encounter     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S56.002D | Unspecified injury of flexor muscle, fascia and tendon of left thumb at forearm level, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S56.002S | Unspecified injury of flexor muscle, fascia and tendon of left thumb at forearm level, sequela                     | Diagnosis     | ICD-10-CM |
| S56.009  | Unspecified injury of flexor muscle, fascia and tendon of unspecified thumb at forearm level                       | Diagnosis     | ICD-10-CM |
| S56.009A | Unspecified injury of flexor muscle, fascia and tendon of unspecified thumb at forearm level, initial encounter    | Diagnosis     | ICD-10-CM |
| S56.009D | Unspecified injury of flexor muscle, fascia and tendon of unspecified thumb at forearm level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.009S | Unspecified injury of flexor muscle, fascia and tendon of unspecified thumb at forearm level, sequela              | Diagnosis     | ICD-10-CM |
| S56.01   | Strain of flexor muscle, fascia and tendon of thumb at forearm level   | Diagnosis     | ICD-10-CM |
| S56.011  | Strain of flexor muscle, fascia and tendon of right thumb at forearm level   | Diagnosis     | ICD-10-CM |
| S56.011A | Strain of flexor muscle, fascia and tendon of right thumb at forearm level, initial encounter                      | Diagnosis     | ICD-10-CM |
| S56.011D | Strain of flexor muscle, fascia and tendon of right thumb at forearm level, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S56.011S | Strain of flexor muscle, fascia and tendon of right thumb at forearm level, sequela                                | Diagnosis     | ICD-10-CM |
| S56.012  | Strain of flexor muscle, fascia and tendon of left thumb at forearm level  | Diagnosis     | ICD-10-CM |
| S56.012A | Strain of flexor muscle, fascia and tendon of left thumb at forearm level, initial encounter                       | Diagnosis     | ICD-10-CM |
| S56.012D | Strain of flexor muscle, fascia and tendon of left thumb at forearm level, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S56.012S | Strain of flexor muscle, fascia and tendon of left thumb at forearm level, sequela                                 | Diagnosis     | ICD-10-CM |
| S56.019  | Strain of flexor muscle, fascia and tendon of unspecified thumb at forearm level                                   | Diagnosis     | ICD-10-CM |
| S56.019A | Strain of flexor muscle, fascia and tendon of unspecified thumb at forearm level, initial encounter                | Diagnosis     | ICD-10-CM |
| S56.019D | Strain of flexor muscle, fascia and tendon of unspecified thumb at forearm level, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S56.019S | Strain of flexor muscle, fascia and tendon of unspecified thumb at forearm level, sequela                          | Diagnosis     | ICD-10-CM |
| S56.02   | Laceration of flexor muscle, fascia and tendon of thumb at forearm level   | Diagnosis     | ICD-10-CM |
| S56.021  | Laceration of flexor muscle, fascia and tendon of right thumb at forearm level                                     | Diagnosis     | ICD-10-CM |
| S56.021A | Laceration of flexor muscle, fascia and tendon of right thumb at forearm level, initial encounter                  | Diagnosis     | ICD-10-CM |
| S56.021D | Laceration of flexor muscle, fascia and tendon of right thumb at forearm level, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S56.021S | Laceration of flexor muscle, fascia and tendon of right thumb at forearm level, sequela                            | Diagnosis     | ICD-10-CM |
| S56.022  | Laceration of flexor muscle, fascia and tendon of left thumb at forearm level                                      | Diagnosis     | ICD-10-CM |
| S56.022A | Laceration of flexor muscle, fascia and tendon of left thumb at forearm level, initial encounter                   | Diagnosis     | ICD-10-CM |
| S56.022D | Laceration of flexor muscle, fascia and tendon of left thumb at forearm level, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S56.022S | Laceration of flexor muscle, fascia and tendon of left thumb at forearm level, sequela                             | Diagnosis     | ICD-10-CM |
| S56.029  | Laceration of flexor muscle, fascia and tendon of unspecified thumb at forearm level                               | Diagnosis     | ICD-10-CM |
| S56.029A | Laceration of flexor muscle, fascia and tendon of unspecified thumb at forearm level, initial encounter            | Diagnosis     | ICD-10-CM |
| S56.029D | Laceration of flexor muscle, fascia and tendon of unspecified thumb at forearm level, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S56.029S | Laceration of flexor muscle, fascia and tendon of unspecified thumb at forearm level, sequela                      | Diagnosis     | ICD-10-CM |
| S56.09   | Other injury of flexor muscle, fascia and tendon of thumb at forearm level   | Diagnosis     | ICD-10-CM |
| S56.091  | Other injury of flexor muscle, fascia and tendon of right thumb at forearm level                                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S56.091A | Other injury of flexor muscle, fascia and tendon of right thumb at forearm level, initial encounter                  | Diagnosis     | ICD-10-CM |
| S56.091D | Other injury of flexor muscle, fascia and tendon of right thumb at forearm level, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S56.091S | Other injury of flexor muscle, fascia and tendon of right thumb at forearm level, sequela                            | Diagnosis     | ICD-10-CM |
| S56.092  | Other injury of flexor muscle, fascia and tendon of left thumb at forearm level                                      | Diagnosis     | ICD-10-CM |
| S56.092A | Other injury of flexor muscle, fascia and tendon of left thumb at forearm level, initial encounter                   | Diagnosis     | ICD-10-CM |
| S56.092D | Other injury of flexor muscle, fascia and tendon of left thumb at forearm level, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S56.092S | Other injury of flexor muscle, fascia and tendon of left thumb at forearm level, sequela                             | Diagnosis     | ICD-10-CM |
| S56.099  | Other injury of flexor muscle, fascia and tendon of unspecified thumb at forearm level                               | Diagnosis     | ICD-10-CM |
| S56.099A | Other injury of flexor muscle, fascia and tendon of unspecified thumb at forearm level, initial encounter            | Diagnosis     | ICD-10-CM |
| S56.099D | Other injury of flexor muscle, fascia and tendon of unspecified thumb at forearm level, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S56.099S | Other injury of flexor muscle, fascia and tendon of unspecified thumb at forearm level, sequela                      | Diagnosis     | ICD-10-CM |
| S56.1    | Injury of flexor muscle, fascia and tendon of other and unspecified finger at forearm level                          | Diagnosis     | ICD-10-CM |
| S56.10   | Unspecified injury of flexor muscle, fascia and tendon of other and unspecified finger at forearm level              | Diagnosis     | ICD-10-CM |
| S56.101  | Unspecified injury of flexor muscle, fascia and tendon of right index finger at forearm level                        | Diagnosis     | ICD-10-CM |
| S56.101A | Unspecified injury of flexor muscle, fascia and tendon of right index finger at forearm level, initial encounter     | Diagnosis     | ICD-10-CM |
| S56.101D | Unspecified injury of flexor muscle, fascia and tendon of right index finger at forearm level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S56.101S | Unspecified injury of flexor muscle, fascia and tendon of right index finger at forearm level, sequela               | Diagnosis     | ICD-10-CM |
| S56.102  | Unspecified injury of flexor muscle, fascia and tendon of left index finger at forearm level                         | Diagnosis     | ICD-10-CM |
| S56.102A | Unspecified injury of flexor muscle, fascia and tendon of left index finger at forearm level, initial encounter      | Diagnosis     | ICD-10-CM |
| S56.102D | Unspecified injury of flexor muscle, fascia and tendon of left index finger at forearm level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S56.102S | Unspecified injury of flexor muscle, fascia and tendon of left index finger at forearm level, sequela                | Diagnosis     | ICD-10-CM |
| S56.103  | Unspecified injury of flexor muscle, fascia and tendon of right middle finger at forearm level                       | Diagnosis     | ICD-10-CM |
| S56.103A | Unspecified injury of flexor muscle, fascia and tendon of right middle finger at forearm level, initial encounter    | Diagnosis     | ICD-10-CM |
| S56.103D | Unspecified injury of flexor muscle, fascia and tendon of right middle finger at forearm level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.103S | Unspecified injury of flexor muscle, fascia and tendon of right middle finger at forearm level, sequela              | Diagnosis     | ICD-10-CM |
| S56.104  | Unspecified injury of flexor muscle, fascia and tendon of left middle finger at forearm level                        | Diagnosis     | ICD-10-CM |
| S56.104A | Unspecified injury of flexor muscle, fascia and tendon of left middle finger at forearm level, initial encounter     | Diagnosis     | ICD-10-CM |
| S56.104D | Unspecified injury of flexor muscle, fascia and tendon of left middle finger at forearm level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S56.104S | Unspecified injury of flexor muscle, fascia and tendon of left middle finger at forearm level, sequela               | Diagnosis     | ICD-10-CM |
| S56.105  | Unspecified injury of flexor muscle, fascia and tendon of right ring finger at forearm level                         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S56.105A | Unspecified injury of flexor muscle, fascia and tendon of right ring finger at forearm level, initial encounter      | Diagnosis     | ICD-10-CM |
| S56.105D | Unspecified injury of flexor muscle, fascia and tendon of right ring finger at forearm level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S56.105S | Unspecified injury of flexor muscle, fascia and tendon of right ring finger at forearm level, sequela                | Diagnosis     | ICD-10-CM |
| S56.106  | Unspecified injury of flexor muscle, fascia and tendon of left ring finger at forearm level                          | Diagnosis     | ICD-10-CM |
| S56.106A | Unspecified injury of flexor muscle, fascia and tendon of left ring finger at forearm level, initial encounter       | Diagnosis     | ICD-10-CM |
| S56.106D | Unspecified injury of flexor muscle, fascia and tendon of left ring finger at forearm level, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S56.106S | Unspecified injury of flexor muscle, fascia and tendon of left ring finger at forearm level, sequela                 | Diagnosis     | ICD-10-CM |
| S56.107  | Unspecified injury of flexor muscle, fascia and tendon of right little finger at forearm level                       | Diagnosis     | ICD-10-CM |
| S56.107A | Unspecified injury of flexor muscle, fascia and tendon of right little finger at forearm level, initial encounter    | Diagnosis     | ICD-10-CM |
| S56.107D | Unspecified injury of flexor muscle, fascia and tendon of right little finger at forearm level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.107S | Unspecified injury of flexor muscle, fascia and tendon of right little finger at forearm level, sequela              | Diagnosis     | ICD-10-CM |
| S56.108  | Unspecified injury of flexor muscle, fascia and tendon of left little finger at forearm level                        | Diagnosis     | ICD-10-CM |
| S56.108A | Unspecified injury of flexor muscle, fascia and tendon of left little finger at forearm level, initial encounter     | Diagnosis     | ICD-10-CM |
| S56.108D | Unspecified injury of flexor muscle, fascia and tendon of left little finger at forearm level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S56.108S | Unspecified injury of flexor muscle, fascia and tendon of left little finger at forearm level, sequela               | Diagnosis     | ICD-10-CM |
| S56.109  | Unspecified injury of flexor muscle, fascia and tendon of unspecified finger at forearm level                        | Diagnosis     | ICD-10-CM |
| S56.109A | Unspecified injury of flexor muscle, fascia and tendon of unspecified finger at forearm level, initial encounter     | Diagnosis     | ICD-10-CM |
| S56.109D | Unspecified injury of flexor muscle, fascia and tendon of unspecified finger at forearm level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S56.109S | Unspecified injury of flexor muscle, fascia and tendon of unspecified finger at forearm level, sequela               | Diagnosis     | ICD-10-CM |
| S56.11   | Strain of flexor muscle, fascia and tendon of other and unspecified finger at forearm level                          | Diagnosis     | ICD-10-CM |
| S56.111  | Strain of flexor muscle, fascia and tendon of right index finger at forearm level                                    | Diagnosis     | ICD-10-CM |
| S56.111A | Strain of flexor muscle, fascia and tendon of right index finger at forearm level, initial encounter                 | Diagnosis     | ICD-10-CM |
| S56.111D | Strain of flexor muscle, fascia and tendon of right index finger at forearm level, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S56.111S | Strain of flexor muscle, fascia and tendon of right index finger at forearm level, sequela                           | Diagnosis     | ICD-10-CM |
| S56.112  | Strain of flexor muscle, fascia and tendon of left index finger at forearm level                                     | Diagnosis     | ICD-10-CM |
| S56.112A | Strain of flexor muscle, fascia and tendon of left index finger at forearm level, initial encounter                  | Diagnosis     | ICD-10-CM |
| S56.112D | Strain of flexor muscle, fascia and tendon of left index finger at forearm level, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S56.112S | Strain of flexor muscle, fascia and tendon of left index finger at forearm level, sequela                            | Diagnosis     | ICD-10-CM |
| S56.113  | Strain of flexor muscle, fascia and tendon of right middle finger at forearm level                                   | Diagnosis     | ICD-10-CM |
| S56.113A | Strain of flexor muscle, fascia and tendon of right middle finger at forearm level, initial encounter                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S56.113D | Strain of flexor muscle, fascia and tendon of right middle finger at forearm level, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S56.113S | Strain of flexor muscle, fascia and tendon of right middle finger at forearm level, sequela                       | Diagnosis     | ICD-10-CM |
| S56.114  | Strain of flexor muscle, fascia and tendon of left middle finger at forearm level                                 | Diagnosis     | ICD-10-CM |
| S56.114A | Strain of flexor muscle, fascia and tendon of left middle finger at forearm level, initial encounter              | Diagnosis     | ICD-10-CM |
| S56.114D | Strain of flexor muscle, fascia and tendon of left middle finger at forearm level, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S56.114S | Strain of flexor muscle, fascia and tendon of left middle finger at forearm level, sequela                        | Diagnosis     | ICD-10-CM |
| S56.115  | Strain of flexor muscle, fascia and tendon of right ring finger at forearm level                                  | Diagnosis     | ICD-10-CM |
| S56.115A | Strain of flexor muscle, fascia and tendon of right ring finger at forearm level, initial encounter               | Diagnosis     | ICD-10-CM |
| S56.115D | Strain of flexor muscle, fascia and tendon of right ring finger at forearm level, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S56.115S | Strain of flexor muscle, fascia and tendon of right ring finger at forearm level, sequela                         | Diagnosis     | ICD-10-CM |
| S56.116  | Strain of flexor muscle, fascia and tendon of left ring finger at forearm level                                   | Diagnosis     | ICD-10-CM |
| S56.116A | Strain of flexor muscle, fascia and tendon of left ring finger at forearm level, initial encounter                | Diagnosis     | ICD-10-CM |
| S56.116D | Strain of flexor muscle, fascia and tendon of left ring finger at forearm level, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S56.116S | Strain of flexor muscle, fascia and tendon of left ring finger at forearm level, sequela                          | Diagnosis     | ICD-10-CM |
| S56.117  | Strain of flexor muscle, fascia and tendon of right little finger at forearm level                                | Diagnosis     | ICD-10-CM |
| S56.117A | Strain of flexor muscle, fascia and tendon of right little finger at forearm level, initial encounter             | Diagnosis     | ICD-10-CM |
| S56.117D | Strain of flexor muscle, fascia and tendon of right little finger at forearm level, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S56.117S | Strain of flexor muscle, fascia and tendon of right little finger at forearm level, sequela                       | Diagnosis     | ICD-10-CM |
| S56.118  | Strain of flexor muscle, fascia and tendon of left little finger at forearm level                                 | Diagnosis     | ICD-10-CM |
| S56.118A | Strain of flexor muscle, fascia and tendon of left little finger at forearm level, initial encounter              | Diagnosis     | ICD-10-CM |
| S56.118D | Strain of flexor muscle, fascia and tendon of left little finger at forearm level, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S56.118S | Strain of flexor muscle, fascia and tendon of left little finger at forearm level, sequela                        | Diagnosis     | ICD-10-CM |
| S56.119  | Strain of flexor muscle, fascia and tendon of finger of unspecified finger at forearm level                       | Diagnosis     | ICD-10-CM |
| S56.119A | Strain of flexor muscle, fascia and tendon of finger of unspecified finger at forearm level, initial encounter    | Diagnosis     | ICD-10-CM |
| S56.119D | Strain of flexor muscle, fascia and tendon of finger of unspecified finger at forearm level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.119S | Strain of flexor muscle, fascia and tendon of finger of unspecified finger at forearm level, sequela              | Diagnosis     | ICD-10-CM |
| S56.12   | Laceration of flexor muscle, fascia and tendon of other and unspecified finger at forearm level                   | Diagnosis     | ICD-10-CM |
| S56.121  | Laceration of flexor muscle, fascia and tendon of right index finger at forearm level                             | Diagnosis     | ICD-10-CM |
| S56.121A | Laceration of flexor muscle, fascia and tendon of right index finger at forearm level, initial encounter          | Diagnosis     | ICD-10-CM |
| S56.121D | Laceration of flexor muscle, fascia and tendon of right index finger at forearm level, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S56.121S | Laceration of flexor muscle, fascia and tendon of right index finger at forearm level, sequela                    | Diagnosis     | ICD-10-CM |
| S56.122  | Laceration of flexor muscle, fascia and tendon of left index finger at forearm level                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S56.122A | Laceration of flexor muscle, fascia and tendon of left index finger at forearm level, initial encounter      | Diagnosis     | ICD-10-CM |
| S56.122D | Laceration of flexor muscle, fascia and tendon of left index finger at forearm level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S56.122S | Laceration of flexor muscle, fascia and tendon of left index finger at forearm level, sequela                | Diagnosis     | ICD-10-CM |
| S56.123  | Laceration of flexor muscle, fascia and tendon of right middle finger at forearm level                       | Diagnosis     | ICD-10-CM |
| S56.123A | Laceration of flexor muscle, fascia and tendon of right middle finger at forearm level, initial encounter    | Diagnosis     | ICD-10-CM |
| S56.123D | Laceration of flexor muscle, fascia and tendon of right middle finger at forearm level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.123S | Laceration of flexor muscle, fascia and tendon of right middle finger at forearm level, sequela              | Diagnosis     | ICD-10-CM |
| S56.124  | Laceration of flexor muscle, fascia and tendon of left middle finger at forearm level                        | Diagnosis     | ICD-10-CM |
| S56.124A | Laceration of flexor muscle, fascia and tendon of left middle finger at forearm level, initial encounter     | Diagnosis     | ICD-10-CM |
| S56.124D | Laceration of flexor muscle, fascia and tendon of left middle finger at forearm level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S56.124S | Laceration of flexor muscle, fascia and tendon of left middle finger at forearm level, sequela               | Diagnosis     | ICD-10-CM |
| S56.125  | Laceration of flexor muscle, fascia and tendon of right ring finger at forearm level                         | Diagnosis     | ICD-10-CM |
| S56.125A | Laceration of flexor muscle, fascia and tendon of right ring finger at forearm level, initial encounter      | Diagnosis     | ICD-10-CM |
| S56.125D | Laceration of flexor muscle, fascia and tendon of right ring finger at forearm level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S56.125S | Laceration of flexor muscle, fascia and tendon of right ring finger at forearm level, sequela                | Diagnosis     | ICD-10-CM |
| S56.126  | Laceration of flexor muscle, fascia and tendon of left ring finger at forearm level                          | Diagnosis     | ICD-10-CM |
| S56.126A | Laceration of flexor muscle, fascia and tendon of left ring finger at forearm level, initial encounter       | Diagnosis     | ICD-10-CM |
| S56.126D | Laceration of flexor muscle, fascia and tendon of left ring finger at forearm level, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S56.126S | Laceration of flexor muscle, fascia and tendon of left ring finger at forearm level, sequela                 | Diagnosis     | ICD-10-CM |
| S56.127  | Laceration of flexor muscle, fascia and tendon of right little finger at forearm level                       | Diagnosis     | ICD-10-CM |
| S56.127A | Laceration of flexor muscle, fascia and tendon of right little finger at forearm level, initial encounter    | Diagnosis     | ICD-10-CM |
| S56.127D | Laceration of flexor muscle, fascia and tendon of right little finger at forearm level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.127S | Laceration of flexor muscle, fascia and tendon of right little finger at forearm level, sequela              | Diagnosis     | ICD-10-CM |
| S56.128  | Laceration of flexor muscle, fascia and tendon of left little finger at forearm level                        | Diagnosis     | ICD-10-CM |
| S56.128A | Laceration of flexor muscle, fascia and tendon of left little finger at forearm level, initial encounter     | Diagnosis     | ICD-10-CM |
| S56.128D | Laceration of flexor muscle, fascia and tendon of left little finger at forearm level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S56.128S | Laceration of flexor muscle, fascia and tendon of left little finger at forearm level, sequela               | Diagnosis     | ICD-10-CM |
| S56.129  | Laceration of flexor muscle, fascia and tendon of unspecified finger at forearm level                        | Diagnosis     | ICD-10-CM |
| S56.129A | Laceration of flexor muscle, fascia and tendon of unspecified finger at forearm level, initial encounter     | Diagnosis     | ICD-10-CM |
| S56.129D | Laceration of flexor muscle, fascia and tendon of unspecified finger at forearm level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S56.129S | Laceration of flexor muscle, fascia and tendon of unspecified finger at forearm level, sequela               | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S56.19   | Other injury of flexor muscle, fascia and tendon of other and unspecified finger at forearm level              | Diagnosis     | ICD-10-CM |
| S56.191  | Other injury of flexor muscle, fascia and tendon of right index finger at forearm level                        | Diagnosis     | ICD-10-CM |
| S56.191A | Other injury of flexor muscle, fascia and tendon of right index finger at forearm level, initial encounter     | Diagnosis     | ICD-10-CM |
| S56.191D | Other injury of flexor muscle, fascia and tendon of right index finger at forearm level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S56.191S | Other injury of flexor muscle, fascia and tendon of right index finger at forearm level, sequela               | Diagnosis     | ICD-10-CM |
| S56.192  | Other injury of flexor muscle, fascia and tendon of left index finger at forearm level                         | Diagnosis     | ICD-10-CM |
| S56.192A | Other injury of flexor muscle, fascia and tendon of left index finger at forearm level, initial encounter      | Diagnosis     | ICD-10-CM |
| S56.192D | Other injury of flexor muscle, fascia and tendon of left index finger at forearm level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S56.192S | Other injury of flexor muscle, fascia and tendon of left index finger at forearm level, sequela                | Diagnosis     | ICD-10-CM |
| S56.193  | Other injury of flexor muscle, fascia and tendon of right middle finger at forearm level                       | Diagnosis     | ICD-10-CM |
| S56.193A | Other injury of flexor muscle, fascia and tendon of right middle finger at forearm level, initial encounter    | Diagnosis     | ICD-10-CM |
| S56.193D | Other injury of flexor muscle, fascia and tendon of right middle finger at forearm level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.193S | Other injury of flexor muscle, fascia and tendon of right middle finger at forearm level, sequela              | Diagnosis     | ICD-10-CM |
| S56.194  | Other injury of flexor muscle, fascia and tendon of left middle finger at forearm level                        | Diagnosis     | ICD-10-CM |
| S56.194A | Other injury of flexor muscle, fascia and tendon of left middle finger at forearm level, initial encounter     | Diagnosis     | ICD-10-CM |
| S56.194D | Other injury of flexor muscle, fascia and tendon of left middle finger at forearm level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S56.194S | Other injury of flexor muscle, fascia and tendon of left middle finger at forearm level, sequela               | Diagnosis     | ICD-10-CM |
| S56.195  | Other injury of flexor muscle, fascia and tendon of right ring finger at forearm level                         | Diagnosis     | ICD-10-CM |
| S56.195A | Other injury of flexor muscle, fascia and tendon of right ring finger at forearm level, initial encounter      | Diagnosis     | ICD-10-CM |
| S56.195D | Other injury of flexor muscle, fascia and tendon of right ring finger at forearm level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S56.195S | Other injury of flexor muscle, fascia and tendon of right ring finger at forearm level, sequela                | Diagnosis     | ICD-10-CM |
| S56.196  | Other injury of flexor muscle, fascia and tendon of left ring finger at forearm level                          | Diagnosis     | ICD-10-CM |
| S56.196A | Other injury of flexor muscle, fascia and tendon of left ring finger at forearm level, initial encounter       | Diagnosis     | ICD-10-CM |
| S56.196D | Other injury of flexor muscle, fascia and tendon of left ring finger at forearm level, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S56.196S | Other injury of flexor muscle, fascia and tendon of left ring finger at forearm level, sequela                 | Diagnosis     | ICD-10-CM |
| S56.197  | Other injury of flexor muscle, fascia and tendon of right little finger at forearm level                       | Diagnosis     | ICD-10-CM |
| S56.197A | Other injury of flexor muscle, fascia and tendon of right little finger at forearm level, initial encounter    | Diagnosis     | ICD-10-CM |
| S56.197D | Other injury of flexor muscle, fascia and tendon of right little finger at forearm level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.197S | Other injury of flexor muscle, fascia and tendon of right little finger at forearm level, sequela              | Diagnosis     | ICD-10-CM |
| S56.198  | Other injury of flexor muscle, fascia and tendon of left little finger at forearm level                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S56.198A | Other injury of flexor muscle, fascia and tendon of left little finger at forearm level, initial encounter           | Diagnosis     | ICD-10-CM |
| S56.198D | Other injury of flexor muscle, fascia and tendon of left little finger at forearm level, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S56.198S | Other injury of flexor muscle, fascia and tendon of left little finger at forearm level, sequela                     | Diagnosis     | ICD-10-CM |
| S56.199  | Other injury of flexor muscle, fascia and tendon of unspecified finger at forearm level                              | Diagnosis     | ICD-10-CM |
| S56.199A | Other injury of flexor muscle, fascia and tendon of unspecified finger at forearm level, initial encounter           | Diagnosis     | ICD-10-CM |
| S56.199D | Other injury of flexor muscle, fascia and tendon of unspecified finger at forearm level, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S56.199S | Other injury of flexor muscle, fascia and tendon of unspecified finger at forearm level, sequela                     | Diagnosis     | ICD-10-CM |
| S56.2    | Injury of other flexor muscle, fascia and tendon at forearm level  | Diagnosis     | ICD-10-CM |
| S56.20   | Unspecified injury of other flexor muscle, fascia and tendon at forearm level  | Diagnosis     | ICD-10-CM |
| S56.201  | Unspecified injury of other flexor muscle, fascia and tendon at forearm level, right arm                             | Diagnosis     | ICD-10-CM |
| S56.201A | Unspecified injury of other flexor muscle, fascia and tendon at forearm level, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S56.201D | Unspecified injury of other flexor muscle, fascia and tendon at forearm level, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S56.201S | Unspecified injury of other flexor muscle, fascia and tendon at forearm level, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S56.202  | Unspecified injury of other flexor muscle, fascia and tendon at forearm level, left arm                              | Diagnosis     | ICD-10-CM |
| S56.202A | Unspecified injury of other flexor muscle, fascia and tendon at forearm level, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S56.202D | Unspecified injury of other flexor muscle, fascia and tendon at forearm level, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S56.202S | Unspecified injury of other flexor muscle, fascia and tendon at forearm level, left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S56.209  | Unspecified injury of other flexor muscle, fascia and tendon at forearm level, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S56.209A | Unspecified injury of other flexor muscle, fascia and tendon at forearm level, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S56.209D | Unspecified injury of other flexor muscle, fascia and tendon at forearm level, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.209S | Unspecified injury of other flexor muscle, fascia and tendon at forearm level, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S56.21   | Strain of other flexor muscle, fascia and tendon at forearm level  | Diagnosis     | ICD-10-CM |
| S56.211  | Strain of other flexor muscle, fascia and tendon at forearm level, right arm   | Diagnosis     | ICD-10-CM |
| S56.211A | Strain of other flexor muscle, fascia and tendon at forearm level, right arm, initial encounter                      | Diagnosis     | ICD-10-CM |
| S56.211D | Strain of other flexor muscle, fascia and tendon at forearm level, right arm, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S56.211S | Strain of other flexor muscle, fascia and tendon at forearm level, right arm, sequela                                | Diagnosis     | ICD-10-CM |
| S56.212  | Strain of other flexor muscle, fascia and tendon at forearm level, left arm  | Diagnosis     | ICD-10-CM |
| S56.212A | Strain of other flexor muscle, fascia and tendon at forearm level, left arm, initial encounter                       | Diagnosis     | ICD-10-CM |
| S56.212D | Strain of other flexor muscle, fascia and tendon at forearm level, left arm, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S56.212S | Strain of other flexor muscle, fascia and tendon at forearm level, left arm, sequela                                 | Diagnosis     | ICD-10-CM |
| S56.219  | Strain of other flexor muscle, fascia and tendon at forearm level, unspecified arm                                   | Diagnosis     | ICD-10-CM |
| S56.219A | Strain of other flexor muscle, fascia and tendon at forearm level, unspecified arm, initial encounter                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S56.219D | Strain of other flexor muscle, fascia and tendon at forearm level, unspecified arm, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S56.219S | Strain of other flexor muscle, fascia and tendon at forearm level, unspecified arm, sequela                               | Diagnosis     | ICD-10-CM |
| S56.22   | Laceration of other flexor muscle, fascia and tendon at forearm level   | Diagnosis     | ICD-10-CM |
| S56.221  | Laceration of other flexor muscle, fascia and tendon at forearm level, right arm  | Diagnosis     | ICD-10-CM |
| S56.221A | Laceration of other flexor muscle, fascia and tendon at forearm level, right arm, initial encounter                       | Diagnosis     | ICD-10-CM |
| S56.221D | Laceration of other flexor muscle, fascia and tendon at forearm level, right arm, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S56.221S | Laceration of other flexor muscle, fascia and tendon at forearm level, right arm, sequela                                 | Diagnosis     | ICD-10-CM |
| S56.222  | Laceration of other flexor muscle, fascia and tendon at forearm level, left arm   | Diagnosis     | ICD-10-CM |
| S56.222A | Laceration of other flexor muscle, fascia and tendon at forearm level, left arm, initial encounter                        | Diagnosis     | ICD-10-CM |
| S56.222D | Laceration of other flexor muscle, fascia and tendon at forearm level, left arm, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S56.222S | Laceration of other flexor muscle, fascia and tendon at forearm level, left arm, sequela                                  | Diagnosis     | ICD-10-CM |
| S56.229  | Laceration of other flexor muscle, fascia and tendon at forearm level, unspecified arm                                    | Diagnosis     | ICD-10-CM |
| S56.229A | Laceration of other flexor muscle, fascia and tendon at forearm level, unspecified arm, initial encounter                 | Diagnosis     | ICD-10-CM |
| S56.229D | Laceration of other flexor muscle, fascia and tendon at forearm level, unspecified arm, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S56.229S | Laceration of other flexor muscle, fascia and tendon at forearm level, unspecified arm, sequela                           | Diagnosis     | ICD-10-CM |
| S56.29   | Other injury of other flexor muscle, fascia and tendon at forearm level   | Diagnosis     | ICD-10-CM |
| S56.291  | Other injury of other flexor muscle, fascia and tendon at forearm level, right arm  | Diagnosis     | ICD-10-CM |
| S56.291A | Other injury of other flexor muscle, fascia and tendon at forearm level, right arm, initial encounter                     | Diagnosis     | ICD-10-CM |
| S56.291D | Other injury of other flexor muscle, fascia and tendon at forearm level, right arm, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S56.291S | Other injury of other flexor muscle, fascia and tendon at forearm level, right arm, sequela                               | Diagnosis     | ICD-10-CM |
| S56.292  | Other injury of other flexor muscle, fascia and tendon at forearm level, left arm   | Diagnosis     | ICD-10-CM |
| S56.292A | Other injury of other flexor muscle, fascia and tendon at forearm level, left arm, initial encounter                      | Diagnosis     | ICD-10-CM |
| S56.292D | Other injury of other flexor muscle, fascia and tendon at forearm level, left arm, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S56.292S | Other injury of other flexor muscle, fascia and tendon at forearm level, left arm, sequela                                | Diagnosis     | ICD-10-CM |
| S56.299  | Other injury of other flexor muscle, fascia and tendon at forearm level, unspecified arm                                  | Diagnosis     | ICD-10-CM |
| S56.299A | Other injury of other flexor muscle, fascia and tendon at forearm level, unspecified arm, initial encounter               | Diagnosis     | ICD-10-CM |
| S56.299D | Other injury of other flexor muscle, fascia and tendon at forearm level, unspecified arm, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S56.299S | Other injury of other flexor muscle, fascia and tendon at forearm level, unspecified arm, sequela                         | Diagnosis     | ICD-10-CM |
| S56.3    | Injury of extensor or abductor muscles, fascia and tendons of thumb at forearm level                                      | Diagnosis     | ICD-10-CM |
| S56.30   | Unspecified injury of extensor or abductor muscles, fascia and tendons of thumb at forearm level                          | Diagnosis     | ICD-10-CM |
| S56.301  | Unspecified injury of extensor or abductor muscles, fascia and tendons of right thumb at forearm level                    | Diagnosis     | ICD-10-CM |
| S56.301A | Unspecified injury of extensor or abductor muscles, fascia and tendons of right thumb at forearm level, initial encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S56.301D | Unspecified injury of extensor or abductor muscles, fascia and tendons of right thumb at forearm level, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S56.301S | Unspecified injury of extensor or abductor muscles, fascia and tendons of right thumb at forearm level, sequela                    | Diagnosis     | ICD-10-CM |
| S56.302  | Unspecified injury of extensor or abductor muscles, fascia and tendons of left thumb at forearm level                              | Diagnosis     | ICD-10-CM |
| S56.302A | Unspecified injury of extensor or abductor muscles, fascia and tendons of left thumb at forearm level, initial encounter           | Diagnosis     | ICD-10-CM |
| S56.302D | Unspecified injury of extensor or abductor muscles, fascia and tendons of left thumb at forearm level, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S56.302S | Unspecified injury of extensor or abductor muscles, fascia and tendons of left thumb at forearm level, sequela                     | Diagnosis     | ICD-10-CM |
| S56.309  | Unspecified injury of extensor or abductor muscles, fascia and tendons of unspecified thumb at forearm level                       | Diagnosis     | ICD-10-CM |
| S56.309A | Unspecified injury of extensor or abductor muscles, fascia and tendons of unspecified thumb at forearm level, initial encounter    | Diagnosis     | ICD-10-CM |
| S56.309D | Unspecified injury of extensor or abductor muscles, fascia and tendons of unspecified thumb at forearm level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.309S | Unspecified injury of extensor or abductor muscles, fascia and tendons of unspecified thumb at forearm level, sequela              | Diagnosis     | ICD-10-CM |
| S56.31   | Strain of extensor or abductor muscles, fascia and tendons of thumb at forearm level   | Diagnosis     | ICD-10-CM |
| S56.311  | Strain of extensor or abductor muscles, fascia and tendons of right thumb at forearm level   | Diagnosis     | ICD-10-CM |
| S56.311A | Strain of extensor or abductor muscles, fascia and tendons of right thumb at forearm level, initial encounter                      | Diagnosis     | ICD-10-CM |
| S56.311D | Strain of extensor or abductor muscles, fascia and tendons of right thumb at forearm level, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S56.311S | Strain of extensor or abductor muscles, fascia and tendons of right thumb at forearm level, sequela                                | Diagnosis     | ICD-10-CM |
| S56.312  | Strain of extensor or abductor muscles, fascia and tendons of left thumb at forearm level  | Diagnosis     | ICD-10-CM |
| S56.312A | Strain of extensor or abductor muscles, fascia and tendons of left thumb at forearm level, initial encounter                       | Diagnosis     | ICD-10-CM |
| S56.312D | Strain of extensor or abductor muscles, fascia and tendons of left thumb at forearm level, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S56.312S | Strain of extensor or abductor muscles, fascia and tendons of left thumb at forearm level, sequela                                 | Diagnosis     | ICD-10-CM |
| S56.319  | Strain of extensor or abductor muscles, fascia and tendons of unspecified thumb at forearm level                                   | Diagnosis     | ICD-10-CM |
| S56.319A | Strain of extensor or abductor muscles, fascia and tendons of unspecified thumb at forearm level, initial encounter                | Diagnosis     | ICD-10-CM |
| S56.319D | Strain of extensor or abductor muscles, fascia and tendons of unspecified thumb at forearm level, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S56.319S | Strain of extensor or abductor muscles, fascia and tendons of unspecified thumb at forearm level, sequela                          | Diagnosis     | ICD-10-CM |
| S56.32   | Laceration of extensor or abductor muscles, fascia and tendons of thumb at forearm level   | Diagnosis     | ICD-10-CM |
| S56.321  | Laceration of extensor or abductor muscles, fascia and tendons of right thumb at forearm level                                     | Diagnosis     | ICD-10-CM |
| S56.321A | Laceration of extensor or abductor muscles, fascia and tendons of right thumb at forearm level, initial encounter                  | Diagnosis     | ICD-10-CM |
| S56.321D | Laceration of extensor or abductor muscles, fascia and tendons of right thumb at forearm level, subsequent encounter               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S56.321S | Laceration of extensor or abductor muscles, fascia and tendons of right thumb at forearm level, sequela                      | Diagnosis     | ICD-10-CM |
| S56.322  | Laceration of extensor or abductor muscles, fascia and tendons of left thumb at forearm level                                | Diagnosis     | ICD-10-CM |
| S56.322A | Laceration of extensor or abductor muscles, fascia and tendons of left thumb at forearm level, initial encounter             | Diagnosis     | ICD-10-CM |
| S56.322D | Laceration of extensor or abductor muscles, fascia and tendons of left thumb at forearm level, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S56.322S | Laceration of extensor or abductor muscles, fascia and tendons of left thumb at forearm level, sequela                       | Diagnosis     | ICD-10-CM |
| S56.329  | Laceration of extensor or abductor muscles, fascia and tendons of unspecified thumb at forearm level                         | Diagnosis     | ICD-10-CM |
| S56.329A | Laceration of extensor or abductor muscles, fascia and tendons of unspecified thumb at forearm level, initial encounter      | Diagnosis     | ICD-10-CM |
| S56.329D | Laceration of extensor or abductor muscles, fascia and tendons of unspecified thumb at forearm level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S56.329S | Laceration of extensor or abductor muscles, fascia and tendons of unspecified thumb at forearm level, sequela                | Diagnosis     | ICD-10-CM |
| S56.39   | Other injury of extensor or abductor muscles, fascia and tendons of thumb at forearm level                                   | Diagnosis     | ICD-10-CM |
| S56.391  | Other injury of extensor or abductor muscles, fascia and tendons of right thumb at forearm level                             | Diagnosis     | ICD-10-CM |
| S56.391A | Other injury of extensor or abductor muscles, fascia and tendons of right thumb at forearm level, initial encounter          | Diagnosis     | ICD-10-CM |
| S56.391D | Other injury of extensor or abductor muscles, fascia and tendons of right thumb at forearm level, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S56.391S | Other injury of extensor or abductor muscles, fascia and tendons of right thumb at forearm level, sequela                    | Diagnosis     | ICD-10-CM |
| S56.392  | Other injury of extensor or abductor muscles, fascia and tendons of left thumb at forearm level                              | Diagnosis     | ICD-10-CM |
| S56.392A | Other injury of extensor or abductor muscles, fascia and tendons of left thumb at forearm level, initial encounter           | Diagnosis     | ICD-10-CM |
| S56.392D | Other injury of extensor or abductor muscles, fascia and tendons of left thumb at forearm level, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S56.392S | Other injury of extensor or abductor muscles, fascia and tendons of left thumb at forearm level, sequela                     | Diagnosis     | ICD-10-CM |
| S56.399  | Other injury of extensor or abductor muscles, fascia and tendons of unspecified thumb at forearm level                       | Diagnosis     | ICD-10-CM |
| S56.399A | Other injury of extensor or abductor muscles, fascia and tendons of unspecified thumb at forearm level, initial encounter    | Diagnosis     | ICD-10-CM |
| S56.399D | Other injury of extensor or abductor muscles, fascia and tendons of unspecified thumb at forearm level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.399S | Other injury of extensor or abductor muscles, fascia and tendons of unspecified thumb at forearm level, sequela              | Diagnosis     | ICD-10-CM |
| S56.4    | Injury of extensor muscle, fascia and tendon of other and unspecified finger at forearm level                                | Diagnosis     | ICD-10-CM |
| S56.40   | Unspecified injury of extensor muscle, fascia and tendon of other and unspecified finger at forearm level                    | Diagnosis     | ICD-10-CM |
| S56.401  | Unspecified injury of extensor muscle, fascia and tendon of right index finger at forearm level                              | Diagnosis     | ICD-10-CM |
| S56.401A | Unspecified injury of extensor muscle, fascia and tendon of right index finger at forearm level, initial encounter           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S56.401D | Unspecified injury of extensor muscle, fascia and tendon of right index finger at forearm level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S56.401S | Unspecified injury of extensor muscle, fascia and tendon of right index finger at forearm level, sequela               | Diagnosis     | ICD-10-CM |
| S56.402  | Unspecified injury of extensor muscle, fascia and tendon of left index finger at forearm level                         | Diagnosis     | ICD-10-CM |
| S56.402A | Unspecified injury of extensor muscle, fascia and tendon of left index finger at forearm level, initial encounter      | Diagnosis     | ICD-10-CM |
| S56.402D | Unspecified injury of extensor muscle, fascia and tendon of left index finger at forearm level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S56.402S | Unspecified injury of extensor muscle, fascia and tendon of left index finger at forearm level, sequela                | Diagnosis     | ICD-10-CM |
| S56.403  | Unspecified injury of extensor muscle, fascia and tendon of right middle finger at forearm level                       | Diagnosis     | ICD-10-CM |
| S56.403A | Unspecified injury of extensor muscle, fascia and tendon of right middle finger at forearm level, initial encounter    | Diagnosis     | ICD-10-CM |
| S56.403D | Unspecified injury of extensor muscle, fascia and tendon of right middle finger at forearm level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.403S | Unspecified injury of extensor muscle, fascia and tendon of right middle finger at forearm level, sequela              | Diagnosis     | ICD-10-CM |
| S56.404  | Unspecified injury of extensor muscle, fascia and tendon of left middle finger at forearm level                        | Diagnosis     | ICD-10-CM |
| S56.404A | Unspecified injury of extensor muscle, fascia and tendon of left middle finger at forearm level, initial encounter     | Diagnosis     | ICD-10-CM |
| S56.404D | Unspecified injury of extensor muscle, fascia and tendon of left middle finger at forearm level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S56.404S | Unspecified injury of extensor muscle, fascia and tendon of left middle finger at forearm level, sequela               | Diagnosis     | ICD-10-CM |
| S56.405  | Unspecified injury of extensor muscle, fascia and tendon of right ring finger at forearm level                         | Diagnosis     | ICD-10-CM |
| S56.405A | Unspecified injury of extensor muscle, fascia and tendon of right ring finger at forearm level, initial encounter      | Diagnosis     | ICD-10-CM |
| S56.405D | Unspecified injury of extensor muscle, fascia and tendon of right ring finger at forearm level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S56.405S | Unspecified injury of extensor muscle, fascia and tendon of right ring finger at forearm level, sequela                | Diagnosis     | ICD-10-CM |
| S56.406  | Unspecified injury of extensor muscle, fascia and tendon of left ring finger at forearm level                          | Diagnosis     | ICD-10-CM |
| S56.406A | Unspecified injury of extensor muscle, fascia and tendon of left ring finger at forearm level, initial encounter       | Diagnosis     | ICD-10-CM |
| S56.406D | Unspecified injury of extensor muscle, fascia and tendon of left ring finger at forearm level, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S56.406S | Unspecified injury of extensor muscle, fascia and tendon of left ring finger at forearm level, sequela                 | Diagnosis     | ICD-10-CM |
| S56.407  | Unspecified injury of extensor muscle, fascia and tendon of right little finger at forearm level                       | Diagnosis     | ICD-10-CM |
| S56.407A | Unspecified injury of extensor muscle, fascia and tendon of right little finger at forearm level, initial encounter    | Diagnosis     | ICD-10-CM |
| S56.407D | Unspecified injury of extensor muscle, fascia and tendon of right little finger at forearm level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.407S | Unspecified injury of extensor muscle, fascia and tendon of right little finger at forearm level, sequela              | Diagnosis     | ICD-10-CM |
| S56.408  | Unspecified injury of extensor muscle, fascia and tendon of left little finger at forearm level                        | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S56.408A | Unspecified injury of extensor muscle, fascia and tendon of left little finger at forearm level, initial encounter    | Diagnosis     | ICD-10-CM |
| S56.408D | Unspecified injury of extensor muscle, fascia and tendon of left little finger at forearm level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.408S | Unspecified injury of extensor muscle, fascia and tendon of left little finger at forearm level, sequela              | Diagnosis     | ICD-10-CM |
| S56.409  | Unspecified injury of extensor muscle, fascia and tendon of unspecified finger at forearm level                       | Diagnosis     | ICD-10-CM |
| S56.409A | Unspecified injury of extensor muscle, fascia and tendon of unspecified finger at forearm level, initial encounter    | Diagnosis     | ICD-10-CM |
| S56.409D | Unspecified injury of extensor muscle, fascia and tendon of unspecified finger at forearm level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.409S | Unspecified injury of extensor muscle, fascia and tendon of unspecified finger at forearm level, sequela              | Diagnosis     | ICD-10-CM |
| S56.41   | Strain of extensor muscle, fascia and tendon of other and unspecified finger at forearm level                         | Diagnosis     | ICD-10-CM |
| S56.411  | Strain of extensor muscle, fascia and tendon of right index finger at forearm level                                   | Diagnosis     | ICD-10-CM |
| S56.411A | Strain of extensor muscle, fascia and tendon of right index finger at forearm level, initial encounter                | Diagnosis     | ICD-10-CM |
| S56.411D | Strain of extensor muscle, fascia and tendon of right index finger at forearm level, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S56.411S | Strain of extensor muscle, fascia and tendon of right index finger at forearm level, sequela                          | Diagnosis     | ICD-10-CM |
| S56.412  | Strain of extensor muscle, fascia and tendon of left index finger at forearm level                                    | Diagnosis     | ICD-10-CM |
| S56.412A | Strain of extensor muscle, fascia and tendon of left index finger at forearm level, initial encounter                 | Diagnosis     | ICD-10-CM |
| S56.412D | Strain of extensor muscle, fascia and tendon of left index finger at forearm level, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S56.412S | Strain of extensor muscle, fascia and tendon of left index finger at forearm level, sequela                           | Diagnosis     | ICD-10-CM |
| S56.413  | Strain of extensor muscle, fascia and tendon of right middle finger at forearm level                                  | Diagnosis     | ICD-10-CM |
| S56.413A | Strain of extensor muscle, fascia and tendon of right middle finger at forearm level, initial encounter               | Diagnosis     | ICD-10-CM |
| S56.413D | Strain of extensor muscle, fascia and tendon of right middle finger at forearm level, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S56.413S | Strain of extensor muscle, fascia and tendon of right middle finger at forearm level, sequela                         | Diagnosis     | ICD-10-CM |
| S56.414  | Strain of extensor muscle, fascia and tendon of left middle finger at forearm level                                   | Diagnosis     | ICD-10-CM |
| S56.414A | Strain of extensor muscle, fascia and tendon of left middle finger at forearm level, initial encounter                | Diagnosis     | ICD-10-CM |
| S56.414D | Strain of extensor muscle, fascia and tendon of left middle finger at forearm level, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S56.414S | Strain of extensor muscle, fascia and tendon of left middle finger at forearm level, sequela                          | Diagnosis     | ICD-10-CM |
| S56.415  | Strain of extensor muscle, fascia and tendon of right ring finger at forearm level                                    | Diagnosis     | ICD-10-CM |
| S56.415A | Strain of extensor muscle, fascia and tendon of right ring finger at forearm level, initial encounter                 | Diagnosis     | ICD-10-CM |
| S56.415D | Strain of extensor muscle, fascia and tendon of right ring finger at forearm level, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S56.415S | Strain of extensor muscle, fascia and tendon of right ring finger at forearm level, sequela                           | Diagnosis     | ICD-10-CM |
| S56.416  | Strain of extensor muscle, fascia and tendon of left ring finger at forearm level                                     | Diagnosis     | ICD-10-CM |
| S56.416A | Strain of extensor muscle, fascia and tendon of left ring finger at forearm level, initial encounter                  | Diagnosis     | ICD-10-CM |
| S56.416D | Strain of extensor muscle, fascia and tendon of left ring finger at forearm level, subsequent encounter               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S56.416S | Strain of extensor muscle, fascia and tendon of left ring finger at forearm level, sequela                        | Diagnosis     | ICD-10-CM |
| S56.417  | Strain of extensor muscle, fascia and tendon of right little finger at forearm level                              | Diagnosis     | ICD-10-CM |
| S56.417A | Strain of extensor muscle, fascia and tendon of right little finger at forearm level, initial encounter           | Diagnosis     | ICD-10-CM |
| S56.417D | Strain of extensor muscle, fascia and tendon of right little finger at forearm level, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S56.417S | Strain of extensor muscle, fascia and tendon of right little finger at forearm level, sequela                     | Diagnosis     | ICD-10-CM |
| S56.418  | Strain of extensor muscle, fascia and tendon of left little finger at forearm level                               | Diagnosis     | ICD-10-CM |
| S56.418A | Strain of extensor muscle, fascia and tendon of left little finger at forearm level, initial encounter            | Diagnosis     | ICD-10-CM |
| S56.418D | Strain of extensor muscle, fascia and tendon of left little finger at forearm level, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S56.418S | Strain of extensor muscle, fascia and tendon of left little finger at forearm level, sequela                      | Diagnosis     | ICD-10-CM |
| S56.419  | Strain of extensor muscle, fascia and tendon of finger, unspecified finger at forearm level                       | Diagnosis     | ICD-10-CM |
| S56.419A | Strain of extensor muscle, fascia and tendon of finger, unspecified finger at forearm level, initial encounter    | Diagnosis     | ICD-10-CM |
| S56.419D | Strain of extensor muscle, fascia and tendon of finger, unspecified finger at forearm level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.419S | Strain of extensor muscle, fascia and tendon of finger, unspecified finger at forearm level, sequela              | Diagnosis     | ICD-10-CM |
| S56.42   | Laceration of extensor muscle, fascia and tendon of other and unspecified finger at forearm level                 | Diagnosis     | ICD-10-CM |
| S56.421  | Laceration of extensor muscle, fascia and tendon of right index finger at forearm level                           | Diagnosis     | ICD-10-CM |
| S56.421A | Laceration of extensor muscle, fascia and tendon of right index finger at forearm level, initial encounter        | Diagnosis     | ICD-10-CM |
| S56.421D | Laceration of extensor muscle, fascia and tendon of right index finger at forearm level, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S56.421S | Laceration of extensor muscle, fascia and tendon of right index finger at forearm level, sequela                  | Diagnosis     | ICD-10-CM |
| S56.422  | Laceration of extensor muscle, fascia and tendon of left index finger at forearm level                            | Diagnosis     | ICD-10-CM |
| S56.422A | Laceration of extensor muscle, fascia and tendon of left index finger at forearm level, initial encounter         | Diagnosis     | ICD-10-CM |
| S56.422D | Laceration of extensor muscle, fascia and tendon of left index finger at forearm level, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S56.422S | Laceration of extensor muscle, fascia and tendon of left index finger at forearm level, sequela                   | Diagnosis     | ICD-10-CM |
| S56.423  | Laceration of extensor muscle, fascia and tendon of right middle finger at forearm level                          | Diagnosis     | ICD-10-CM |
| S56.423A | Laceration of extensor muscle, fascia and tendon of right middle finger at forearm level, initial encounter       | Diagnosis     | ICD-10-CM |
| S56.423D | Laceration of extensor muscle, fascia and tendon of right middle finger at forearm level, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S56.423S | Laceration of extensor muscle, fascia and tendon of right middle finger at forearm level, sequela                 | Diagnosis     | ICD-10-CM |
| S56.424  | Laceration of extensor muscle, fascia and tendon of left middle finger at forearm level                           | Diagnosis     | ICD-10-CM |
| S56.424A | Laceration of extensor muscle, fascia and tendon of left middle finger at forearm level, initial encounter        | Diagnosis     | ICD-10-CM |
| S56.424D | Laceration of extensor muscle, fascia and tendon of left middle finger at forearm level, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S56.424S | Laceration of extensor muscle, fascia and tendon of left middle finger at forearm level, sequela                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S56.425  | Laceration of extensor muscle, fascia and tendon of right ring finger at forearm level                          | Diagnosis     | ICD-10-CM |
| S56.425A | Laceration of extensor muscle, fascia and tendon of right ring finger at forearm level, initial encounter       | Diagnosis     | ICD-10-CM |
| S56.425D | Laceration of extensor muscle, fascia and tendon of right ring finger at forearm level, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S56.425S | Laceration of extensor muscle, fascia and tendon of right ring finger at forearm level, sequela                 | Diagnosis     | ICD-10-CM |
| S56.426  | Laceration of extensor muscle, fascia and tendon of left ring finger at forearm level                           | Diagnosis     | ICD-10-CM |
| S56.426A | Laceration of extensor muscle, fascia and tendon of left ring finger at forearm level, initial encounter        | Diagnosis     | ICD-10-CM |
| S56.426D | Laceration of extensor muscle, fascia and tendon of left ring finger at forearm level, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S56.426S | Laceration of extensor muscle, fascia and tendon of left ring finger at forearm level, sequela                  | Diagnosis     | ICD-10-CM |
| S56.427  | Laceration of extensor muscle, fascia and tendon of right little finger at forearm level                        | Diagnosis     | ICD-10-CM |
| S56.427A | Laceration of extensor muscle, fascia and tendon of right little finger at forearm level, initial encounter     | Diagnosis     | ICD-10-CM |
| S56.427D | Laceration of extensor muscle, fascia and tendon of right little finger at forearm level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S56.427S | Laceration of extensor muscle, fascia and tendon of right little finger at forearm level, sequela               | Diagnosis     | ICD-10-CM |
| S56.428  | Laceration of extensor muscle, fascia and tendon of left little finger at forearm level                         | Diagnosis     | ICD-10-CM |
| S56.428A | Laceration of extensor muscle, fascia and tendon of left little finger at forearm level, initial encounter      | Diagnosis     | ICD-10-CM |
| S56.428D | Laceration of extensor muscle, fascia and tendon of left little finger at forearm level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S56.428S | Laceration of extensor muscle, fascia and tendon of left little finger at forearm level, sequela                | Diagnosis     | ICD-10-CM |
| S56.429  | Laceration of extensor muscle, fascia and tendon of unspecified finger at forearm level                         | Diagnosis     | ICD-10-CM |
| S56.429A | Laceration of extensor muscle, fascia and tendon of unspecified finger at forearm level, initial encounter      | Diagnosis     | ICD-10-CM |
| S56.429D | Laceration of extensor muscle, fascia and tendon of unspecified finger at forearm level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S56.429S | Laceration of extensor muscle, fascia and tendon of unspecified finger at forearm level, sequela                | Diagnosis     | ICD-10-CM |
| S56.49   | Other injury of extensor muscle, fascia and tendon of other and unspecified finger at forearm level             | Diagnosis     | ICD-10-CM |
| S56.491  | Other injury of extensor muscle, fascia and tendon of right index finger at forearm level                       | Diagnosis     | ICD-10-CM |
| S56.491A | Other injury of extensor muscle, fascia and tendon of right index finger at forearm level, initial encounter    | Diagnosis     | ICD-10-CM |
| S56.491D | Other injury of extensor muscle, fascia and tendon of right index finger at forearm level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.491S | Other injury of extensor muscle, fascia and tendon of right index finger at forearm level, sequela              | Diagnosis     | ICD-10-CM |
| S56.492  | Other injury of extensor muscle, fascia and tendon of left index finger at forearm level                        | Diagnosis     | ICD-10-CM |
| S56.492A | Other injury of extensor muscle, fascia and tendon of left index finger at forearm level, initial encounter     | Diagnosis     | ICD-10-CM |
| S56.492D | Other injury of extensor muscle, fascia and tendon of left index finger at forearm level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S56.492S | Other injury of extensor muscle, fascia and tendon of left index finger at forearm level, sequela               | Diagnosis     | ICD-10-CM |
| S56.493  | Other injury of extensor muscle, fascia and tendon of right middle finger at forearm level                      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S56.493A | Other injury of extensor muscle, fascia and tendon of right middle finger at forearm level, initial encounter    | Diagnosis     | ICD-10-CM |
| S56.493D | Other injury of extensor muscle, fascia and tendon of right middle finger at forearm level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.493S | Other injury of extensor muscle, fascia and tendon of right middle finger at forearm level, sequela              | Diagnosis     | ICD-10-CM |
| S56.494  | Other injury of extensor muscle, fascia and tendon of left middle finger at forearm level                        | Diagnosis     | ICD-10-CM |
| S56.494A | Other injury of extensor muscle, fascia and tendon of left middle finger at forearm level, initial encounter     | Diagnosis     | ICD-10-CM |
| S56.494D | Other injury of extensor muscle, fascia and tendon of left middle finger at forearm level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S56.494S | Other injury of extensor muscle, fascia and tendon of left middle finger at forearm level, sequela               | Diagnosis     | ICD-10-CM |
| S56.495  | Other injury of extensor muscle, fascia and tendon of right ring finger at forearm level                         | Diagnosis     | ICD-10-CM |
| S56.495A | Other injury of extensor muscle, fascia and tendon of right ring finger at forearm level, initial encounter      | Diagnosis     | ICD-10-CM |
| S56.495D | Other injury of extensor muscle, fascia and tendon of right ring finger at forearm level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S56.495S | Other injury of extensor muscle, fascia and tendon of right ring finger at forearm level, sequela                | Diagnosis     | ICD-10-CM |
| S56.496  | Other injury of extensor muscle, fascia and tendon of left ring finger at forearm level                          | Diagnosis     | ICD-10-CM |
| S56.496A | Other injury of extensor muscle, fascia and tendon of left ring finger at forearm level, initial encounter       | Diagnosis     | ICD-10-CM |
| S56.496D | Other injury of extensor muscle, fascia and tendon of left ring finger at forearm level, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S56.496S | Other injury of extensor muscle, fascia and tendon of left ring finger at forearm level, sequela                 | Diagnosis     | ICD-10-CM |
| S56.497  | Other injury of extensor muscle, fascia and tendon of right little finger at forearm level                       | Diagnosis     | ICD-10-CM |
| S56.497A | Other injury of extensor muscle, fascia and tendon of right little finger at forearm level, initial encounter    | Diagnosis     | ICD-10-CM |
| S56.497D | Other injury of extensor muscle, fascia and tendon of right little finger at forearm level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.497S | Other injury of extensor muscle, fascia and tendon of right little finger at forearm level, sequela              | Diagnosis     | ICD-10-CM |
| S56.498  | Other injury of extensor muscle, fascia and tendon of left little finger at forearm level                        | Diagnosis     | ICD-10-CM |
| S56.498A | Other injury of extensor muscle, fascia and tendon of left little finger at forearm level, initial encounter     | Diagnosis     | ICD-10-CM |
| S56.498D | Other injury of extensor muscle, fascia and tendon of left little finger at forearm level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S56.498S | Other injury of extensor muscle, fascia and tendon of left little finger at forearm level, sequela               | Diagnosis     | ICD-10-CM |
| S56.499  | Other injury of extensor muscle, fascia and tendon of unspecified finger at forearm level                        | Diagnosis     | ICD-10-CM |
| S56.499A | Other injury of extensor muscle, fascia and tendon of unspecified finger at forearm level, initial encounter     | Diagnosis     | ICD-10-CM |
| S56.499D | Other injury of extensor muscle, fascia and tendon of unspecified finger at forearm level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S56.499S | Other injury of extensor muscle, fascia and tendon of unspecified finger at forearm level, sequela               | Diagnosis     | ICD-10-CM |
| S56.5    | Injury of other extensor muscle, fascia and tendon at forearm level  | Diagnosis     | ICD-10-CM |
| S56.50   | Unspecified injury of other extensor muscle, fascia and tendon at forearm level                                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S56.501  | Unspecified injury of other extensor muscle, fascia and tendon at forearm level, right arm                             | Diagnosis     | ICD-10-CM |
| S56.501A | Unspecified injury of other extensor muscle, fascia and tendon at forearm level, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S56.501D | Unspecified injury of other extensor muscle, fascia and tendon at forearm level, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S56.501S | Unspecified injury of other extensor muscle, fascia and tendon at forearm level, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S56.502  | Unspecified injury of other extensor muscle, fascia and tendon at forearm level, left arm                              | Diagnosis     | ICD-10-CM |
| S56.502A | Unspecified injury of other extensor muscle, fascia and tendon at forearm level, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S56.502D | Unspecified injury of other extensor muscle, fascia and tendon at forearm level, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S56.502S | Unspecified injury of other extensor muscle, fascia and tendon at forearm level, left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S56.509  | Unspecified injury of other extensor muscle, fascia and tendon at forearm level, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S56.509A | Unspecified injury of other extensor muscle, fascia and tendon at forearm level, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S56.509D | Unspecified injury of other extensor muscle, fascia and tendon at forearm level, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.509S | Unspecified injury of other extensor muscle, fascia and tendon at forearm level, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S56.51   | Strain of other extensor muscle, fascia and tendon at forearm level  | Diagnosis     | ICD-10-CM |
| S56.511  | Strain of other extensor muscle, fascia and tendon at forearm level, right arm   | Diagnosis     | ICD-10-CM |
| S56.511A | Strain of other extensor muscle, fascia and tendon at forearm level, right arm, initial encounter                      | Diagnosis     | ICD-10-CM |
| S56.511D | Strain of other extensor muscle, fascia and tendon at forearm level, right arm, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S56.511S | Strain of other extensor muscle, fascia and tendon at forearm level, right arm, sequela                                | Diagnosis     | ICD-10-CM |
| S56.512  | Strain of other extensor muscle, fascia and tendon at forearm level, left arm  | Diagnosis     | ICD-10-CM |
| S56.512A | Strain of other extensor muscle, fascia and tendon at forearm level, left arm, initial encounter                       | Diagnosis     | ICD-10-CM |
| S56.512D | Strain of other extensor muscle, fascia and tendon at forearm level, left arm, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S56.512S | Strain of other extensor muscle, fascia and tendon at forearm level, left arm, sequela                                 | Diagnosis     | ICD-10-CM |
| S56.519  | Strain of other extensor muscle, fascia and tendon at forearm level, unspecified arm                                   | Diagnosis     | ICD-10-CM |
| S56.519A | Strain of other extensor muscle, fascia and tendon at forearm level, unspecified arm, initial encounter                | Diagnosis     | ICD-10-CM |
| S56.519D | Strain of other extensor muscle, fascia and tendon at forearm level, unspecified arm, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S56.519S | Strain of other extensor muscle, fascia and tendon at forearm level, unspecified arm, sequela                          | Diagnosis     | ICD-10-CM |
| S56.52   | Laceration of other extensor muscle, fascia and tendon at forearm level  | Diagnosis     | ICD-10-CM |
| S56.521  | Laceration of other extensor muscle, fascia and tendon at forearm level, right arm                                     | Diagnosis     | ICD-10-CM |
| S56.521A | Laceration of other extensor muscle, fascia and tendon at forearm level, right arm, initial encounter                  | Diagnosis     | ICD-10-CM |
| S56.521D | Laceration of other extensor muscle, fascia and tendon at forearm level, right arm, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S56.521S | Laceration of other extensor muscle, fascia and tendon at forearm level, right arm, sequela                            | Diagnosis     | ICD-10-CM |
| S56.522  | Laceration of other extensor muscle, fascia and tendon at forearm level, left arm                                      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S56.522A | Laceration of other extensor muscle, fascia and tendon at forearm level, left arm, initial encounter             | Diagnosis     | ICD-10-CM |
| S56.522D | Laceration of other extensor muscle, fascia and tendon at forearm level, left arm, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S56.522S | Laceration of other extensor muscle, fascia and tendon at forearm level, left arm, sequela                       | Diagnosis     | ICD-10-CM |
| S56.529  | Laceration of other extensor muscle, fascia and tendon at forearm level, unspecified arm                         | Diagnosis     | ICD-10-CM |
| S56.529A | Laceration of other extensor muscle, fascia and tendon at forearm level, unspecified arm, initial encounter      | Diagnosis     | ICD-10-CM |
| S56.529D | Laceration of other extensor muscle, fascia and tendon at forearm level, unspecified arm, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S56.529S | Laceration of other extensor muscle, fascia and tendon at forearm level, unspecified arm, sequela                | Diagnosis     | ICD-10-CM |
| S56.59   | Other injury of other extensor muscle, fascia and tendon at forearm level  | Diagnosis     | ICD-10-CM |
| S56.591  | Other injury of other extensor muscle, fascia and tendon at forearm level, right arm                             | Diagnosis     | ICD-10-CM |
| S56.591A | Other injury of other extensor muscle, fascia and tendon at forearm level, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S56.591D | Other injury of other extensor muscle, fascia and tendon at forearm level, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S56.591S | Other injury of other extensor muscle, fascia and tendon at forearm level, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S56.592  | Other injury of other extensor muscle, fascia and tendon at forearm level, left arm                              | Diagnosis     | ICD-10-CM |
| S56.592A | Other injury of other extensor muscle, fascia and tendon at forearm level, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S56.592D | Other injury of other extensor muscle, fascia and tendon at forearm level, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S56.592S | Other injury of other extensor muscle, fascia and tendon at forearm level, left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S56.599  | Other injury of other extensor muscle, fascia and tendon at forearm level, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S56.599A | Other injury of other extensor muscle, fascia and tendon at forearm level, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S56.599D | Other injury of other extensor muscle, fascia and tendon at forearm level, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.599S | Other injury of other extensor muscle, fascia and tendon at forearm level, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S56.8    | Injury of other muscles, fascia and tendons at forearm level   | Diagnosis     | ICD-10-CM |
| S56.80   | Unspecified injury of other muscles, fascia and tendons at forearm level   | Diagnosis     | ICD-10-CM |
| S56.801  | Unspecified injury of other muscles, fascia and tendons at forearm level, right arm                              | Diagnosis     | ICD-10-CM |
| S56.801A | Unspecified injury of other muscles, fascia and tendons at forearm level, right arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S56.801D | Unspecified injury of other muscles, fascia and tendons at forearm level, right arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S56.801S | Unspecified injury of other muscles, fascia and tendons at forearm level, right arm, sequela                     | Diagnosis     | ICD-10-CM |
| S56.802  | Unspecified injury of other muscles, fascia and tendons at forearm level, left arm                               | Diagnosis     | ICD-10-CM |
| S56.802A | Unspecified injury of other muscles, fascia and tendons at forearm level, left arm, initial encounter            | Diagnosis     | ICD-10-CM |
| S56.802D | Unspecified injury of other muscles, fascia and tendons at forearm level, left arm, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S56.802S | Unspecified injury of other muscles, fascia and tendons at forearm level, left arm, sequela                      | Diagnosis     | ICD-10-CM |
| S56.809  | Unspecified injury of other muscles, fascia and tendons at forearm level, unspecified arm                        | Diagnosis     | ICD-10-CM |
| S56.809A | Unspecified injury of other muscles, fascia and tendons at forearm level, unspecified arm, initial encounter     | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S56.809D | Unspecified injury of other muscles, fascia and tendons at forearm level, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.809S | Unspecified injury of other muscles, fascia and tendons at forearm level, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S56.81   | Strain of other muscles, fascia and tendons at forearm level  | Diagnosis     | ICD-10-CM |
| S56.811  | Strain of other muscles, fascia and tendons at forearm level, right arm   | Diagnosis     | ICD-10-CM |
| S56.811A | Strain of other muscles, fascia and tendons at forearm level, right arm, initial encounter                      | Diagnosis     | ICD-10-CM |
| S56.811D | Strain of other muscles, fascia and tendons at forearm level, right arm, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S56.811S | Strain of other muscles, fascia and tendons at forearm level, right arm, sequela                                | Diagnosis     | ICD-10-CM |
| S56.812  | Strain of other muscles, fascia and tendons at forearm level, left arm  | Diagnosis     | ICD-10-CM |
| S56.812A | Strain of other muscles, fascia and tendons at forearm level, left arm, initial encounter                       | Diagnosis     | ICD-10-CM |
| S56.812D | Strain of other muscles, fascia and tendons at forearm level, left arm, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S56.812S | Strain of other muscles, fascia and tendons at forearm level, left arm, sequela                                 | Diagnosis     | ICD-10-CM |
| S56.819  | Strain of other muscles, fascia and tendons at forearm level, unspecified arm                                   | Diagnosis     | ICD-10-CM |
| S56.819A | Strain of other muscles, fascia and tendons at forearm level, unspecified arm, initial encounter                | Diagnosis     | ICD-10-CM |
| S56.819D | Strain of other muscles, fascia and tendons at forearm level, unspecified arm, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S56.819S | Strain of other muscles, fascia and tendons at forearm level, unspecified arm, sequela                          | Diagnosis     | ICD-10-CM |
| S56.82   | Laceration of other muscles, fascia and tendons at forearm level  | Diagnosis     | ICD-10-CM |
| S56.821  | Laceration of other muscles, fascia and tendons at forearm level, right arm                                     | Diagnosis     | ICD-10-CM |
| S56.821A | Laceration of other muscles, fascia and tendons at forearm level, right arm, initial encounter                  | Diagnosis     | ICD-10-CM |
| S56.821D | Laceration of other muscles, fascia and tendons at forearm level, right arm, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S56.821S | Laceration of other muscles, fascia and tendons at forearm level, right arm, sequela                            | Diagnosis     | ICD-10-CM |
| S56.822  | Laceration of other muscles, fascia and tendons at forearm level, left arm                                      | Diagnosis     | ICD-10-CM |
| S56.822A | Laceration of other muscles, fascia and tendons at forearm level, left arm, initial encounter                   | Diagnosis     | ICD-10-CM |
| S56.822D | Laceration of other muscles, fascia and tendons at forearm level, left arm, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S56.822S | Laceration of other muscles, fascia and tendons at forearm level, left arm, sequela                             | Diagnosis     | ICD-10-CM |
| S56.829  | Laceration of other muscles, fascia and tendons at forearm level, unspecified arm                               | Diagnosis     | ICD-10-CM |
| S56.829A | Laceration of other muscles, fascia and tendons at forearm level, unspecified arm, initial encounter            | Diagnosis     | ICD-10-CM |
| S56.829D | Laceration of other muscles, fascia and tendons at forearm level, unspecified arm, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S56.829S | Laceration of other muscles, fascia and tendons at forearm level, unspecified arm, sequela                      | Diagnosis     | ICD-10-CM |
| S56.89   | Other injury of other muscles, fascia and tendons at forearm level  | Diagnosis     | ICD-10-CM |
| S56.891  | Other injury of other muscles, fascia and tendons at forearm level, right arm                                   | Diagnosis     | ICD-10-CM |
| S56.891A | Other injury of other muscles, fascia and tendons at forearm level, right arm, initial encounter                | Diagnosis     | ICD-10-CM |
| S56.891D | Other injury of other muscles, fascia and tendons at forearm level, right arm, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S56.891S | Other injury of other muscles, fascia and tendons at forearm level, right arm, sequela                          | Diagnosis     | ICD-10-CM |
| S56.892  | Other injury of other muscles, fascia and tendons at forearm level, left arm                                    | Diagnosis     | ICD-10-CM |
| S56.892A | Other injury of other muscles, fascia and tendons at forearm level, left arm, initial encounter                 | Diagnosis     | ICD-10-CM |
| S56.892D | Other injury of other muscles, fascia and tendons at forearm level, left arm, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S56.892S | Other injury of other muscles, fascia and tendons at forearm level, left arm, sequela                           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S56.899  | Other injury of other muscles, fascia and tendons at forearm level, unspecified arm                                   | Diagnosis     | ICD-10-CM |
| S56.899A | Other injury of other muscles, fascia and tendons at forearm level, unspecified arm, initial encounter                | Diagnosis     | ICD-10-CM |
| S56.899D | Other injury of other muscles, fascia and tendons at forearm level, unspecified arm, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S56.899S | Other injury of other muscles, fascia and tendons at forearm level, unspecified arm, sequela                          | Diagnosis     | ICD-10-CM |
| S56.9    | Injury of unspecified muscles, fascia and tendons at forearm level  | Diagnosis     | ICD-10-CM |
| S56.90   | Unspecified injury of unspecified muscles, fascia and tendons at forearm level  | Diagnosis     | ICD-10-CM |
| S56.901  | Unspecified injury of unspecified muscles, fascia and tendons at forearm level, right arm                             | Diagnosis     | ICD-10-CM |
| S56.901A | Unspecified injury of unspecified muscles, fascia and tendons at forearm level, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S56.901D | Unspecified injury of unspecified muscles, fascia and tendons at forearm level, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S56.901S | Unspecified injury of unspecified muscles, fascia and tendons at forearm level, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S56.902  | Unspecified injury of unspecified muscles, fascia and tendons at forearm level, left arm                              | Diagnosis     | ICD-10-CM |
| S56.902A | Unspecified injury of unspecified muscles, fascia and tendons at forearm level, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S56.902D | Unspecified injury of unspecified muscles, fascia and tendons at forearm level, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S56.902S | Unspecified injury of unspecified muscles, fascia and tendons at forearm level, left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S56.909  | Unspecified injury of unspecified muscles, fascia and tendons at forearm level, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S56.909A | Unspecified injury of unspecified muscles, fascia and tendons at forearm level, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S56.909D | Unspecified injury of unspecified muscles, fascia and tendons at forearm level, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.909S | Unspecified injury of unspecified muscles, fascia and tendons at forearm level, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S56.91   | Strain of unspecified muscles, fascia and tendons at forearm level  | Diagnosis     | ICD-10-CM |
| S56.911  | Strain of unspecified muscles, fascia and tendons at forearm level, right arm   | Diagnosis     | ICD-10-CM |
| S56.911A | Strain of unspecified muscles, fascia and tendons at forearm level, right arm, initial encounter                      | Diagnosis     | ICD-10-CM |
| S56.911D | Strain of unspecified muscles, fascia and tendons at forearm level, right arm, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S56.911S | Strain of unspecified muscles, fascia and tendons at forearm level, right arm, sequela                                | Diagnosis     | ICD-10-CM |
| S56.912  | Strain of unspecified muscles, fascia and tendons at forearm level, left arm  | Diagnosis     | ICD-10-CM |
| S56.912A | Strain of unspecified muscles, fascia and tendons at forearm level, left arm, initial encounter                       | Diagnosis     | ICD-10-CM |
| S56.912D | Strain of unspecified muscles, fascia and tendons at forearm level, left arm, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S56.912S | Strain of unspecified muscles, fascia and tendons at forearm level, left arm, sequela                                 | Diagnosis     | ICD-10-CM |
| S56.919  | Strain of unspecified muscles, fascia and tendons at forearm level, unspecified arm                                   | Diagnosis     | ICD-10-CM |
| S56.919A | Strain of unspecified muscles, fascia and tendons at forearm level, unspecified arm, initial encounter                | Diagnosis     | ICD-10-CM |
| S56.919D | Strain of unspecified muscles, fascia and tendons at forearm level, unspecified arm, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S56.919S | Strain of unspecified muscles, fascia and tendons at forearm level, unspecified arm, sequela                          | Diagnosis     | ICD-10-CM |
| S56.92   | Laceration of unspecified muscles, fascia and tendons at forearm level  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S56.921  | Laceration of unspecified muscles, fascia and tendons at forearm level, right arm                               | Diagnosis     | ICD-10-CM |
| S56.921A | Laceration of unspecified muscles, fascia and tendons at forearm level, right arm, initial encounter            | Diagnosis     | ICD-10-CM |
| S56.921D | Laceration of unspecified muscles, fascia and tendons at forearm level, right arm, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S56.921S | Laceration of unspecified muscles, fascia and tendons at forearm level, right arm, sequela                      | Diagnosis     | ICD-10-CM |
| S56.922  | Laceration of unspecified muscles, fascia and tendons at forearm level, left arm                                | Diagnosis     | ICD-10-CM |
| S56.922A | Laceration of unspecified muscles, fascia and tendons at forearm level, left arm, initial encounter             | Diagnosis     | ICD-10-CM |
| S56.922D | Laceration of unspecified muscles, fascia and tendons at forearm level, left arm, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S56.922S | Laceration of unspecified muscles, fascia and tendons at forearm level, left arm, sequela                       | Diagnosis     | ICD-10-CM |
| S56.929  | Laceration of unspecified muscles, fascia and tendons at forearm level, unspecified arm                         | Diagnosis     | ICD-10-CM |
| S56.929A | Laceration of unspecified muscles, fascia and tendons at forearm level, unspecified arm, initial encounter      | Diagnosis     | ICD-10-CM |
| S56.929D | Laceration of unspecified muscles, fascia and tendons at forearm level, unspecified arm, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S56.929S | Laceration of unspecified muscles, fascia and tendons at forearm level, unspecified arm, sequela                | Diagnosis     | ICD-10-CM |
| S56.99   | Other injury of unspecified muscles, fascia and tendons at forearm level  | Diagnosis     | ICD-10-CM |
| S56.991  | Other injury of unspecified muscles, fascia and tendons at forearm level, right arm                             | Diagnosis     | ICD-10-CM |
| S56.991A | Other injury of unspecified muscles, fascia and tendons at forearm level, right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S56.991D | Other injury of unspecified muscles, fascia and tendons at forearm level, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S56.991S | Other injury of unspecified muscles, fascia and tendons at forearm level, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S56.992  | Other injury of unspecified muscles, fascia and tendons at forearm level, left arm                              | Diagnosis     | ICD-10-CM |
| S56.992A | Other injury of unspecified muscles, fascia and tendons at forearm level, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S56.992D | Other injury of unspecified muscles, fascia and tendons at forearm level, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S56.992S | Other injury of unspecified muscles, fascia and tendons at forearm level, left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S56.999  | Other injury of unspecified muscles, fascia and tendons at forearm level, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S56.999A | Other injury of unspecified muscles, fascia and tendons at forearm level, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S56.999D | Other injury of unspecified muscles, fascia and tendons at forearm level, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S56.999S | Other injury of unspecified muscles, fascia and tendons at forearm level, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S57      | Crushing injury of elbow and forearm  | Diagnosis     | ICD-10-CM |
| S57.0    | Crushing injury of elbow  | Diagnosis     | ICD-10-CM |
| S57.00   | Crushing injury of unspecified elbow  | Diagnosis     | ICD-10-CM |
| S57.00XA | Crushing injury of unspecified elbow, initial encounter   | Diagnosis     | ICD-10-CM |
| S57.00XD | Crushing injury of unspecified elbow, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S57.00XS | Crushing injury of unspecified elbow, sequela   | Diagnosis     | ICD-10-CM |
| S57.01   | Crushing injury of right elbow  | Diagnosis     | ICD-10-CM |
| S57.01XA | Crushing injury of right elbow, initial encounter   | Diagnosis     | ICD-10-CM |
| S57.01XD | Crushing injury of right elbow, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S57.01XS | Crushing injury of right elbow, sequela   | Diagnosis     | ICD-10-CM |
| S57.02   | Crushing injury of left elbow   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S57.02XA | Crushing injury of left elbow, initial encounter   | Diagnosis     | ICD-10-CM |
| S57.02XD | Crushing injury of left elbow, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S57.02XS | Crushing injury of left elbow, sequela   | Diagnosis     | ICD-10-CM |
| S57.8    | Crushing injury of forearm   | Diagnosis     | ICD-10-CM |
| S57.80   | Crushing injury of unspecified forearm   | Diagnosis     | ICD-10-CM |
| S57.80XA | Crushing injury of unspecified forearm, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S57.80XD | Crushing injury of unspecified forearm, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S57.80XS | Crushing injury of unspecified forearm, sequela  | Diagnosis     | ICD-10-CM |
| S57.81   | Crushing injury of right forearm   | Diagnosis     | ICD-10-CM |
| S57.81XA | Crushing injury of right forearm, initial encounter  | Diagnosis     | ICD-10-CM |
| S57.81XD | Crushing injury of right forearm, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S57.81XS | Crushing injury of right forearm, sequela  | Diagnosis     | ICD-10-CM |
| S57.82   | Crushing injury of left forearm  | Diagnosis     | ICD-10-CM |
| S57.82XA | Crushing injury of left forearm, initial encounter   | Diagnosis     | ICD-10-CM |
| S57.82XD | Crushing injury of left forearm, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S57.82XS | Crushing injury of left forearm, sequela   | Diagnosis     | ICD-10-CM |
| S58      | Traumatic amputation of elbow and forearm  | Diagnosis     | ICD-10-CM |
| S58.0    | Traumatic amputation at elbow level  | Diagnosis     | ICD-10-CM |
| S58.01   | Complete traumatic amputation at elbow level   | Diagnosis     | ICD-10-CM |
| S58.011  | Complete traumatic amputation at elbow level, right arm                                      | Diagnosis     | ICD-10-CM |
| S58.011A | Complete traumatic amputation at elbow level, right arm, initial encounter                   | Diagnosis     | ICD-10-CM |
| S58.011D | Complete traumatic amputation at elbow level, right arm, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S58.011S | Complete traumatic amputation at elbow level, right arm, sequela                             | Diagnosis     | ICD-10-CM |
| S58.012  | Complete traumatic amputation at elbow level, left arm                                       | Diagnosis     | ICD-10-CM |
| S58.012A | Complete traumatic amputation at elbow level, left arm, initial encounter                    | Diagnosis     | ICD-10-CM |
| S58.012D | Complete traumatic amputation at elbow level, left arm, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S58.012S | Complete traumatic amputation at elbow level, left arm, sequela                              | Diagnosis     | ICD-10-CM |
| S58.019  | Complete traumatic amputation at elbow level, unspecified arm                                | Diagnosis     | ICD-10-CM |
| S58.019A | Complete traumatic amputation at elbow level, unspecified arm, initial encounter             | Diagnosis     | ICD-10-CM |
| S58.019D | Complete traumatic amputation at elbow level, unspecified arm, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S58.019S | Complete traumatic amputation at elbow level, unspecified arm, sequela                       | Diagnosis     | ICD-10-CM |
| S58.02   | Partial traumatic amputation at elbow level  | Diagnosis     | ICD-10-CM |
| S58.021  | Partial traumatic amputation at elbow level, right arm                                       | Diagnosis     | ICD-10-CM |
| S58.021A | Partial traumatic amputation at elbow level, right arm, initial encounter                    | Diagnosis     | ICD-10-CM |
| S58.021D | Partial traumatic amputation at elbow level, right arm, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S58.021S | Partial traumatic amputation at elbow level, right arm, sequela                              | Diagnosis     | ICD-10-CM |
| S58.022  | Partial traumatic amputation at elbow level, left arm  | Diagnosis     | ICD-10-CM |
| S58.022A | Partial traumatic amputation at elbow level, left arm, initial encounter                     | Diagnosis     | ICD-10-CM |
| S58.022D | Partial traumatic amputation at elbow level, left arm, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S58.022S | Partial traumatic amputation at elbow level, left arm, sequela                               | Diagnosis     | ICD-10-CM |
| S58.029  | Partial traumatic amputation at elbow level, unspecified arm                                 | Diagnosis     | ICD-10-CM |
| S58.029A | Partial traumatic amputation at elbow level, unspecified arm, initial encounter              | Diagnosis     | ICD-10-CM |
| S58.029D | Partial traumatic amputation at elbow level, unspecified arm, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S58.029S | Partial traumatic amputation at elbow level, unspecified arm, sequela                        | Diagnosis     | ICD-10-CM |
| S58.1    | Traumatic amputation at level between elbow and wrist  | Diagnosis     | ICD-10-CM |
| S58.11   | Complete traumatic amputation at level between elbow and wrist                               | Diagnosis     | ICD-10-CM |
| S58.111  | Complete traumatic amputation at level between elbow and wrist, right arm                    | Diagnosis     | ICD-10-CM |
| S58.111A | Complete traumatic amputation at level between elbow and wrist, right arm, initial encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S58.111D | Complete traumatic amputation at level between elbow and wrist, right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S58.111S | Complete traumatic amputation at level between elbow and wrist, right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S58.112  | Complete traumatic amputation at level between elbow and wrist, left arm                              | Diagnosis     | ICD-10-CM |
| S58.112A | Complete traumatic amputation at level between elbow and wrist, left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S58.112D | Complete traumatic amputation at level between elbow and wrist, left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S58.112S | Complete traumatic amputation at level between elbow and wrist, left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S58.119  | Complete traumatic amputation at level between elbow and wrist, unspecified arm                       | Diagnosis     | ICD-10-CM |
| S58.119A | Complete traumatic amputation at level between elbow and wrist, unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S58.119D | Complete traumatic amputation at level between elbow and wrist, unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S58.119S | Complete traumatic amputation at level between elbow and wrist, unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S58.12   | Partial traumatic amputation at level between elbow and wrist   | Diagnosis     | ICD-10-CM |
| S58.121  | Partial traumatic amputation at level between elbow and wrist, right arm                              | Diagnosis     | ICD-10-CM |
| S58.121A | Partial traumatic amputation at level between elbow and wrist, right arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S58.121D | Partial traumatic amputation at level between elbow and wrist, right arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S58.121S | Partial traumatic amputation at level between elbow and wrist, right arm, sequela                     | Diagnosis     | ICD-10-CM |
| S58.122  | Partial traumatic amputation at level between elbow and wrist, left arm                               | Diagnosis     | ICD-10-CM |
| S58.122A | Partial traumatic amputation at level between elbow and wrist, left arm, initial encounter            | Diagnosis     | ICD-10-CM |
| S58.122D | Partial traumatic amputation at level between elbow and wrist, left arm, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S58.122S | Partial traumatic amputation at level between elbow and wrist, left arm, sequela                      | Diagnosis     | ICD-10-CM |
| S58.129  | Partial traumatic amputation at level between elbow and wrist, unspecified arm                        | Diagnosis     | ICD-10-CM |
| S58.129A | Partial traumatic amputation at level between elbow and wrist, unspecified arm, initial encounter     | Diagnosis     | ICD-10-CM |
| S58.129D | Partial traumatic amputation at level between elbow and wrist, unspecified arm, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S58.129S | Partial traumatic amputation at level between elbow and wrist, unspecified arm, sequela               | Diagnosis     | ICD-10-CM |
| S58.9    | Traumatic amputation of forearm, level unspecified  | Diagnosis     | ICD-10-CM |
| S58.91   | Complete traumatic amputation of forearm, level unspecified   | Diagnosis     | ICD-10-CM |
| S58.911  | Complete traumatic amputation of right forearm, level unspecified                                     | Diagnosis     | ICD-10-CM |
| S58.911A | Complete traumatic amputation of right forearm, level unspecified, initial encounter                  | Diagnosis     | ICD-10-CM |
| S58.911D | Complete traumatic amputation of right forearm, level unspecified, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S58.911S | Complete traumatic amputation of right forearm, level unspecified, sequela                            | Diagnosis     | ICD-10-CM |
| S58.912  | Complete traumatic amputation of left forearm, level unspecified                                      | Diagnosis     | ICD-10-CM |
| S58.912A | Complete traumatic amputation of left forearm, level unspecified, initial encounter                   | Diagnosis     | ICD-10-CM |
| S58.912D | Complete traumatic amputation of left forearm, level unspecified, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S58.912S | Complete traumatic amputation of left forearm, level unspecified, sequela                             | Diagnosis     | ICD-10-CM |
| S58.919  | Complete traumatic amputation of unspecified forearm, level unspecified                               | Diagnosis     | ICD-10-CM |
| S58.919A | Complete traumatic amputation of unspecified forearm, level unspecified, initial encounter            | Diagnosis     | ICD-10-CM |
| S58.919D | Complete traumatic amputation of unspecified forearm, level unspecified, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S58.919S | Complete traumatic amputation of unspecified forearm, level unspecified, sequela                      | Diagnosis     | ICD-10-CM |
| S58.92   | Partial traumatic amputation of forearm, level unspecified  | Diagnosis     | ICD-10-CM |
| S58.921  | Partial traumatic amputation of right forearm, level unspecified                                      | Diagnosis     | ICD-10-CM |
| S58.921A | Partial traumatic amputation of right forearm, level unspecified, initial encounter                   | Diagnosis     | ICD-10-CM |
| S58.921D | Partial traumatic amputation of right forearm, level unspecified, subsequent encounter                | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S58.921S | Partial traumatic amputation of right forearm, level unspecified, sequela  | Diagnosis     | ICD-10-CM |
| S58.922  | Partial traumatic amputation of left forearm, level unspecified  | Diagnosis     | ICD-10-CM |
| S58.922A | Partial traumatic amputation of left forearm, level unspecified, initial encounter   | Diagnosis     | ICD-10-CM |
| S58.922D | Partial traumatic amputation of left forearm, level unspecified, subsequent encounter                                      | Diagnosis     | ICD-10-CM |
| S58.922S | Partial traumatic amputation of left forearm, level unspecified, sequela   | Diagnosis     | ICD-10-CM |
| S58.929  | Partial traumatic amputation of unspecified forearm, level unspecified   | Diagnosis     | ICD-10-CM |
| S58.929A | Partial traumatic amputation of unspecified forearm, level unspecified, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S58.929D | Partial traumatic amputation of unspecified forearm, level unspecified, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S58.929S | Partial traumatic amputation of unspecified forearm, level unspecified, sequela  | Diagnosis     | ICD-10-CM |
| S59      | Other and unspecified injuries of elbow and forearm  | Diagnosis     | ICD-10-CM |
| S59.0    | Physeal fracture of lower end of ulna  | Diagnosis     | ICD-10-CM |
| S59.00   | Unspecified physeal fracture of lower end of ulna  | Diagnosis     | ICD-10-CM |
| S59.001  | Unspecified physeal fracture of lower end of ulna, right arm   | Diagnosis     | ICD-10-CM |
| S59.001A | Unspecified physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S59.001D | Unspecified physeal fracture of lower end of ulna, right arm, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S59.001G | Unspecified physeal fracture of lower end of ulna, right arm, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S59.001K | Unspecified physeal fracture of lower end of ulna, right arm, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S59.001P | Unspecified physeal fracture of lower end of ulna, right arm, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S59.001S | Unspecified physeal fracture of lower end of ulna, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.002  | Unspecified physeal fracture of lower end of ulna, left arm  | Diagnosis     | ICD-10-CM |
| S59.002A | Unspecified physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S59.002D | Unspecified physeal fracture of lower end of ulna, left arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S59.002G | Unspecified physeal fracture of lower end of ulna, left arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S59.002K | Unspecified physeal fracture of lower end of ulna, left arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S59.002P | Unspecified physeal fracture of lower end of ulna, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S59.002S | Unspecified physeal fracture of lower end of ulna, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S59.009  | Unspecified physeal fracture of lower end of ulna, unspecified arm   | Diagnosis     | ICD-10-CM |
| S59.009A | Unspecified physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S59.009D | Unspecified physeal fracture of lower end of ulna, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S59.009G | Unspecified physeal fracture of lower end of ulna, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S59.009K | Unspecified physeal fracture of lower end of ulna, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S59.009P | Unspecified physeal fracture of lower end of ulna, unspecified arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S59.009S | Unspecified physeal fracture of lower end of ulna, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.01   | Salter-Harris Type I physeal fracture of lower end of ulna   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S59.011  | Salter-Harris Type I physeal fracture of lower end of ulna, right arm   | Diagnosis     | ICD-10-CM |
| S59.011A | Salter-Harris Type I physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S59.011D | Salter-Harris Type I physeal fracture of lower end of ulna, right arm, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S59.011G | Salter-Harris Type I physeal fracture of lower end of ulna, right arm, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S59.011K | Salter-Harris Type I physeal fracture of lower end of ulna, right arm, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S59.011P | Salter-Harris Type I physeal fracture of lower end of ulna, right arm, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S59.011S | Salter-Harris Type I physeal fracture of lower end of ulna, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.012  | Salter-Harris Type I physeal fracture of lower end of ulna, left arm  | Diagnosis     | ICD-10-CM |
| S59.012A | Salter-Harris Type I physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S59.012D | Salter-Harris Type I physeal fracture of lower end of ulna, left arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S59.012G | Salter-Harris Type I physeal fracture of lower end of ulna, left arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S59.012K | Salter-Harris Type I physeal fracture of lower end of ulna, left arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S59.012P | Salter-Harris Type I physeal fracture of lower end of ulna, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S59.012S | Salter-Harris Type I physeal fracture of lower end of ulna, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S59.019  | Salter-Harris Type I physeal fracture of lower end of ulna, unspecified arm   | Diagnosis     | ICD-10-CM |
| S59.019A | Salter-Harris Type I physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S59.019D | Salter-Harris Type I physeal fracture of lower end of ulna, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S59.019G | Salter-Harris Type I physeal fracture of lower end of ulna, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S59.019K | Salter-Harris Type I physeal fracture of lower end of ulna, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S59.019P | Salter-Harris Type I physeal fracture of lower end of ulna, unspecified arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S59.019S | Salter-Harris Type I physeal fracture of lower end of ulna, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.02   | Salter-Harris Type II physeal fracture of lower end of ulna   | Diagnosis     | ICD-10-CM |
| S59.021  | Salter-Harris Type II physeal fracture of lower end of ulna, right arm  | Diagnosis     | ICD-10-CM |
| S59.021A | Salter-Harris Type II physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S59.021D | Salter-Harris Type II physeal fracture of lower end of ulna, right arm, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S59.021G | Salter-Harris Type II physeal fracture of lower end of ulna, right arm, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S59.021K | Salter-Harris Type II physeal fracture of lower end of ulna, right arm, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S59.021P | Salter-Harris Type II physeal fracture of lower end of ulna, right arm, subsequent encounter for fracture with malunion             | Diagnosis     | ICD-10-CM |
| S59.021S | Salter-Harris Type II physeal fracture of lower end of ulna, right arm, sequela   | Diagnosis     | ICD-10-CM |
| S59.022  | Salter-Harris Type II physeal fracture of lower end of ulna, left arm   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S59.022A | Salter-Harris Type II physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S59.022D | Salter-Harris Type II physeal fracture of lower end of ulna, left arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S59.022G | Salter-Harris Type II physeal fracture of lower end of ulna, left arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S59.022K | Salter-Harris Type II physeal fracture of lower end of ulna, left arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S59.022P | Salter-Harris Type II physeal fracture of lower end of ulna, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S59.022S | Salter-Harris Type II physeal fracture of lower end of ulna, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S59.029  | Salter-Harris Type II physeal fracture of lower end of ulna, unspecified arm   | Diagnosis     | ICD-10-CM |
| S59.029A | Salter-Harris Type II physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S59.029D | Salter-Harris Type II physeal fracture of lower end of ulna, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S59.029G | Salter-Harris Type II physeal fracture of lower end of ulna, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S59.029K | Salter-Harris Type II physeal fracture of lower end of ulna, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S59.029P | Salter-Harris Type II physeal fracture of lower end of ulna, unspecified arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S59.029S | Salter-Harris Type II physeal fracture of lower end of ulna, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.03   | Salter-Harris Type III physeal fracture of lower end of ulna   | Diagnosis     | ICD-10-CM |
| S59.031  | Salter-Harris Type III physeal fracture of lower end of ulna, right arm  | Diagnosis     | ICD-10-CM |
| S59.031A | Salter-Harris Type III physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S59.031D | Salter-Harris Type III physeal fracture of lower end of ulna, right arm, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S59.031G | Salter-Harris Type III physeal fracture of lower end of ulna, right arm, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S59.031K | Salter-Harris Type III physeal fracture of lower end of ulna, right arm, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S59.031P | Salter-Harris Type III physeal fracture of lower end of ulna, right arm, subsequent encounter for fracture with malunion             | Diagnosis     | ICD-10-CM |
| S59.031S | Salter-Harris Type III physeal fracture of lower end of ulna, right arm, sequela   | Diagnosis     | ICD-10-CM |
| S59.032  | Salter-Harris Type III physeal fracture of lower end of ulna, left arm   | Diagnosis     | ICD-10-CM |
| S59.032A | Salter-Harris Type III physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S59.032D | Salter-Harris Type III physeal fracture of lower end of ulna, left arm, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S59.032G | Salter-Harris Type III physeal fracture of lower end of ulna, left arm, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S59.032K | Salter-Harris Type III physeal fracture of lower end of ulna, left arm, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S59.032P | Salter-Harris Type III physeal fracture of lower end of ulna, left arm, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S59.032S | Salter-Harris Type III physeal fracture of lower end of ulna, left arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.039  | Salter-Harris Type III physeal fracture of lower end of ulna, unspecified arm  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S59.039A | Salter-Harris Type III physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S59.039D | Salter-Harris Type III physeal fracture of lower end of ulna, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S59.039G | Salter-Harris Type III physeal fracture of lower end of ulna, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S59.039K | Salter-Harris Type III physeal fracture of lower end of ulna, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S59.039P | Salter-Harris Type III physeal fracture of lower end of ulna, unspecified arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S59.039S | Salter-Harris Type III physeal fracture of lower end of ulna, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.04   | Salter-Harris Type IV physeal fracture of lower end of ulna   | Diagnosis     | ICD-10-CM |
| S59.041  | Salter-Harris Type IV physeal fracture of lower end of ulna, right arm  | Diagnosis     | ICD-10-CM |
| S59.041A | Salter-Harris Type IV physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S59.041D | Salter-Harris Type IV physeal fracture of lower end of ulna, right arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S59.041G | Salter-Harris Type IV physeal fracture of lower end of ulna, right arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S59.041K | Salter-Harris Type IV physeal fracture of lower end of ulna, right arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S59.041P | Salter-Harris Type IV physeal fracture of lower end of ulna, right arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S59.041S | Salter-Harris Type IV physeal fracture of lower end of ulna, right arm, sequela   | Diagnosis     | ICD-10-CM |
| S59.042  | Salter-Harris Type IV physeal fracture of lower end of ulna, left arm   | Diagnosis     | ICD-10-CM |
| S59.042A | Salter-Harris Type IV physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S59.042D | Salter-Harris Type IV physeal fracture of lower end of ulna, left arm, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S59.042G | Salter-Harris Type IV physeal fracture of lower end of ulna, left arm, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S59.042K | Salter-Harris Type IV physeal fracture of lower end of ulna, left arm, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S59.042P | Salter-Harris Type IV physeal fracture of lower end of ulna, left arm, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S59.042S | Salter-Harris Type IV physeal fracture of lower end of ulna, left arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.049  | Salter-Harris Type IV physeal fracture of lower end of ulna, unspecified arm  | Diagnosis     | ICD-10-CM |
| S59.049A | Salter-Harris Type IV physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S59.049D | Salter-Harris Type IV physeal fracture of lower end of ulna, unspecified arm, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S59.049G | Salter-Harris Type IV physeal fracture of lower end of ulna, unspecified arm, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S59.049K | Salter-Harris Type IV physeal fracture of lower end of ulna, unspecified arm, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S59.049P | Salter-Harris Type IV physeal fracture of lower end of ulna, unspecified arm, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S59.049S | Salter-Harris Type IV physeal fracture of lower end of ulna, unspecified arm, sequela   | Diagnosis     | ICD-10-CM |
| S59.09   | Other physeal fracture of lower end of ulna   | Diagnosis     | ICD-10-CM |
| S59.091  | Other physeal fracture of lower end of ulna, right arm  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S59.091A | Other physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S59.091D | Other physeal fracture of lower end of ulna, right arm, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S59.091G | Other physeal fracture of lower end of ulna, right arm, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S59.091K | Other physeal fracture of lower end of ulna, right arm, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S59.091P | Other physeal fracture of lower end of ulna, right arm, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S59.091S | Other physeal fracture of lower end of ulna, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.092  | Other physeal fracture of lower end of ulna, left arm  | Diagnosis     | ICD-10-CM |
| S59.092A | Other physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S59.092D | Other physeal fracture of lower end of ulna, left arm, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S59.092G | Other physeal fracture of lower end of ulna, left arm, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S59.092K | Other physeal fracture of lower end of ulna, left arm, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S59.092P | Other physeal fracture of lower end of ulna, left arm, subsequent encounter for fracture with malunion                 | Diagnosis     | ICD-10-CM |
| S59.092S | Other physeal fracture of lower end of ulna, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S59.099  | Other physeal fracture of lower end of ulna, unspecified arm   | Diagnosis     | ICD-10-CM |
| S59.099A | Other physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S59.099D | Other physeal fracture of lower end of ulna, unspecified arm, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S59.099G | Other physeal fracture of lower end of ulna, unspecified arm, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S59.099K | Other physeal fracture of lower end of ulna, unspecified arm, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S59.099P | Other physeal fracture of lower end of ulna, unspecified arm, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |
| S59.099S | Other physeal fracture of lower end of ulna, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.1    | Physeal fracture of upper end of radius  | Diagnosis     | ICD-10-CM |
| S59.10   | Unspecified physeal fracture of upper end of radius  | Diagnosis     | ICD-10-CM |
| S59.101  | Unspecified physeal fracture of upper end of radius, right arm   | Diagnosis     | ICD-10-CM |
| S59.101A | Unspecified physeal fracture of upper end of radius, right arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S59.101D | Unspecified physeal fracture of upper end of radius, right arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S59.101G | Unspecified physeal fracture of upper end of radius, right arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S59.101K | Unspecified physeal fracture of upper end of radius, right arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S59.101P | Unspecified physeal fracture of upper end of radius, right arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S59.101S | Unspecified physeal fracture of upper end of radius, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.102  | Unspecified physeal fracture of upper end of radius, left arm  | Diagnosis     | ICD-10-CM |
| S59.102A | Unspecified physeal fracture of upper end of radius, left arm, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S59.102D | Unspecified physeal fracture of upper end of radius, left arm, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S59.102G | Unspecified physeal fracture of upper end of radius, left arm, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S59.102K | Unspecified physeal fracture of upper end of radius, left arm, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S59.102P | Unspecified physeal fracture of upper end of radius, left arm, subsequent encounter for fracture with malunion                  | Diagnosis     | ICD-10-CM |
| S59.102S | Unspecified physeal fracture of upper end of radius, left arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.109  | Unspecified physeal fracture of upper end of radius, unspecified arm  | Diagnosis     | ICD-10-CM |
| S59.109A | Unspecified physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S59.109D | Unspecified physeal fracture of upper end of radius, unspecified arm, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S59.109G | Unspecified physeal fracture of upper end of radius, unspecified arm, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S59.109K | Unspecified physeal fracture of upper end of radius, unspecified arm, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S59.109P | Unspecified physeal fracture of upper end of radius, unspecified arm, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S59.109S | Unspecified physeal fracture of upper end of radius, unspecified arm, sequela   | Diagnosis     | ICD-10-CM |
| S59.11   | Salter-Harris Type I physeal fracture of upper end of radius  | Diagnosis     | ICD-10-CM |
| S59.111  | Salter-Harris Type I physeal fracture of upper end of radius, right arm   | Diagnosis     | ICD-10-CM |
| S59.111A | Salter-Harris Type I physeal fracture of upper end of radius, right arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S59.111D | Salter-Harris Type I physeal fracture of upper end of radius, right arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S59.111G | Salter-Harris Type I physeal fracture of upper end of radius, right arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S59.111K | Salter-Harris Type I physeal fracture of upper end of radius, right arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S59.111P | Salter-Harris Type I physeal fracture of upper end of radius, right arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S59.111S | Salter-Harris Type I physeal fracture of upper end of radius, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.112  | Salter-Harris Type I physeal fracture of upper end of radius, left arm  | Diagnosis     | ICD-10-CM |
| S59.112A | Salter-Harris Type I physeal fracture of upper end of radius, left arm, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S59.112D | Salter-Harris Type I physeal fracture of upper end of radius, left arm, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S59.112G | Salter-Harris Type I physeal fracture of upper end of radius, left arm, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S59.112K | Salter-Harris Type I physeal fracture of upper end of radius, left arm, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S59.112P | Salter-Harris Type I physeal fracture of upper end of radius, left arm, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S59.112S | Salter-Harris Type I physeal fracture of upper end of radius, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S59.119  | Salter-Harris Type I physeal fracture of upper end of radius, unspecified arm   | Diagnosis     | ICD-10-CM |
| S59.119A | Salter-Harris Type I physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S59.119D | Salter-Harris Type I physeal fracture of upper end of radius, unspecified arm, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S59.119G | Salter-Harris Type I physeal fracture of upper end of radius, unspecified arm, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S59.119K | Salter-Harris Type I physeal fracture of upper end of radius, unspecified arm, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S59.119P | Salter-Harris Type I physeal fracture of upper end of radius, unspecified arm, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S59.119S | Salter-Harris Type I physeal fracture of upper end of radius, unspecified arm, sequela   | Diagnosis     | ICD-10-CM |
| S59.12   | Salter-Harris Type II physeal fracture of upper end of radius  | Diagnosis     | ICD-10-CM |
| S59.121  | Salter-Harris Type II physeal fracture of upper end of radius, right arm   | Diagnosis     | ICD-10-CM |
| S59.121A | Salter-Harris Type II physeal fracture of upper end of radius, right arm, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S59.121D | Salter-Harris Type II physeal fracture of upper end of radius, right arm, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S59.121G | Salter-Harris Type II physeal fracture of upper end of radius, right arm, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S59.121K | Salter-Harris Type II physeal fracture of upper end of radius, right arm, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S59.121P | Salter-Harris Type II physeal fracture of upper end of radius, right arm, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S59.121S | Salter-Harris Type II physeal fracture of upper end of radius, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.122  | Salter-Harris Type II physeal fracture of upper end of radius, left arm  | Diagnosis     | ICD-10-CM |
| S59.122A | Salter-Harris Type II physeal fracture of upper end of radius, left arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S59.122D | Salter-Harris Type II physeal fracture of upper end of radius, left arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S59.122G | Salter-Harris Type II physeal fracture of upper end of radius, left arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S59.122K | Salter-Harris Type II physeal fracture of upper end of radius, left arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S59.122P | Salter-Harris Type II physeal fracture of upper end of radius, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S59.122S | Salter-Harris Type II physeal fracture of upper end of radius, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S59.129  | Salter-Harris Type II physeal fracture of upper end of radius, unspecified arm   | Diagnosis     | ICD-10-CM |
| S59.129A | Salter-Harris Type II physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S59.129D | Salter-Harris Type II physeal fracture of upper end of radius, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S59.129G | Salter-Harris Type II physeal fracture of upper end of radius, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S59.129K | Salter-Harris Type II physeal fracture of upper end of radius, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S59.129P | Salter-Harris Type II physeal fracture of upper end of radius, unspecified arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S59.129S | Salter-Harris Type II physeal fracture of upper end of radius, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.13   | Salter-Harris Type III physeal fracture of upper end of radius   | Diagnosis     | ICD-10-CM |
| S59.131  | Salter-Harris Type III physeal fracture of upper end of radius, right arm  | Diagnosis     | ICD-10-CM |
| S59.131A | Salter-Harris Type III physeal fracture of upper end of radius, right arm, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S59.131D | Salter-Harris Type III physeal fracture of upper end of radius, right arm, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S59.131G | Salter-Harris Type III physeal fracture of upper end of radius, right arm, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S59.131K | Salter-Harris Type III physeal fracture of upper end of radius, right arm, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S59.131P | Salter-Harris Type III physeal fracture of upper end of radius, right arm, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S59.131S | Salter-Harris Type III physeal fracture of upper end of radius, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.132  | Salter-Harris Type III physeal fracture of upper end of radius, left arm  | Diagnosis     | ICD-10-CM |
| S59.132A | Salter-Harris Type III physeal fracture of upper end of radius, left arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S59.132D | Salter-Harris Type III physeal fracture of upper end of radius, left arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S59.132G | Salter-Harris Type III physeal fracture of upper end of radius, left arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S59.132K | Salter-Harris Type III physeal fracture of upper end of radius, left arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S59.132P | Salter-Harris Type III physeal fracture of upper end of radius, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S59.132S | Salter-Harris Type III physeal fracture of upper end of radius, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S59.139  | Salter-Harris Type III physeal fracture of upper end of radius, unspecified arm   | Diagnosis     | ICD-10-CM |
| S59.139A | Salter-Harris Type III physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S59.139D | Salter-Harris Type III physeal fracture of upper end of radius, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S59.139G | Salter-Harris Type III physeal fracture of upper end of radius, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S59.139K | Salter-Harris Type III physeal fracture of upper end of radius, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S59.139P | Salter-Harris Type III physeal fracture of upper end of radius, unspecified arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S59.139S | Salter-Harris Type III physeal fracture of upper end of radius, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.14   | Salter-Harris Type IV physeal fracture of upper end of radius   | Diagnosis     | ICD-10-CM |
| S59.141  | Salter-Harris Type IV physeal fracture of upper end of radius, right arm  | Diagnosis     | ICD-10-CM |
| S59.141A | Salter-Harris Type IV physeal fracture of upper end of radius, right arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S59.141D | Salter-Harris Type IV physeal fracture of upper end of radius, right arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S59.141G | Salter-Harris Type IV physeal fracture of upper end of radius, right arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S59.141K | Salter-Harris Type IV physeal fracture of upper end of radius, right arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S59.141P | Salter-Harris Type IV physeal fracture of upper end of radius, right arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S59.141S | Salter-Harris Type IV physeal fracture of upper end of radius, right arm, sequela   | Diagnosis     | ICD-10-CM |
| S59.142  | Salter-Harris Type IV physeal fracture of upper end of radius, left arm   | Diagnosis     | ICD-10-CM |
| S59.142A | Salter-Harris Type IV physeal fracture of upper end of radius, left arm, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S59.142D | Salter-Harris Type IV physeal fracture of upper end of radius, left arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S59.142G | Salter-Harris Type IV physeal fracture of upper end of radius, left arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S59.142K | Salter-Harris Type IV physeal fracture of upper end of radius, left arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S59.142P | Salter-Harris Type IV physeal fracture of upper end of radius, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S59.142S | Salter-Harris Type IV physeal fracture of upper end of radius, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S59.149  | Salter-Harris Type IV physeal fracture of upper end of radius, unspecified arm   | Diagnosis     | ICD-10-CM |
| S59.149A | Salter-Harris Type IV physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S59.149D | Salter-Harris Type IV physeal fracture of upper end of radius, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S59.149G | Salter-Harris Type IV physeal fracture of upper end of radius, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S59.149K | Salter-Harris Type IV physeal fracture of upper end of radius, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S59.149P | Salter-Harris Type IV physeal fracture of upper end of radius, unspecified arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S59.149S | Salter-Harris Type IV physeal fracture of upper end of radius, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.19   | Other physeal fracture of upper end of radius  | Diagnosis     | ICD-10-CM |
| S59.191  | Other physeal fracture of upper end of radius, right arm   | Diagnosis     | ICD-10-CM |
| S59.191A | Other physeal fracture of upper end of radius, right arm, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S59.191D | Other physeal fracture of upper end of radius, right arm, subsequent encounter for fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S59.191G | Other physeal fracture of upper end of radius, right arm, subsequent encounter for fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S59.191K | Other physeal fracture of upper end of radius, right arm, subsequent encounter for fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S59.191P | Other physeal fracture of upper end of radius, right arm, subsequent encounter for fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S59.191S | Other physeal fracture of upper end of radius, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.192  | Other physeal fracture of upper end of radius, left arm  | Diagnosis     | ICD-10-CM |
| S59.192A | Other physeal fracture of upper end of radius, left arm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S59.192D | Other physeal fracture of upper end of radius, left arm, subsequent encounter for fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S59.192G | Other physeal fracture of upper end of radius, left arm, subsequent encounter for fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S59.192K | Other physeal fracture of upper end of radius, left arm, subsequent encounter for fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S59.192P | Other physeal fracture of upper end of radius, left arm, subsequent encounter for fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S59.192S | Other physeal fracture of upper end of radius, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S59.199  | Other physeal fracture of upper end of radius, unspecified arm   | Diagnosis     | ICD-10-CM |
| S59.199A | Other physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture                                  | Diagnosis     | ICD-10-CM |
| S59.199D | Other physeal fracture of upper end of radius, unspecified arm, subsequent encounter for fracture with routine healing                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S59.199G | Other physeal fracture of upper end of radius, unspecified arm, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S59.199K | Other physeal fracture of upper end of radius, unspecified arm, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S59.199P | Other physeal fracture of upper end of radius, unspecified arm, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S59.199S | Other physeal fracture of upper end of radius, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.2    | Physeal fracture of lower end of radius  | Diagnosis     | ICD-10-CM |
| S59.20   | Unspecified physeal fracture of lower end of radius  | Diagnosis     | ICD-10-CM |
| S59.201  | Unspecified physeal fracture of lower end of radius, right arm   | Diagnosis     | ICD-10-CM |
| S59.201A | Unspecified physeal fracture of lower end of radius, right arm, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S59.201D | Unspecified physeal fracture of lower end of radius, right arm, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S59.201G | Unspecified physeal fracture of lower end of radius, right arm, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S59.201K | Unspecified physeal fracture of lower end of radius, right arm, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S59.201P | Unspecified physeal fracture of lower end of radius, right arm, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S59.201S | Unspecified physeal fracture of lower end of radius, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.202  | Unspecified physeal fracture of lower end of radius, left arm  | Diagnosis     | ICD-10-CM |
| S59.202A | Unspecified physeal fracture of lower end of radius, left arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S59.202D | Unspecified physeal fracture of lower end of radius, left arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S59.202G | Unspecified physeal fracture of lower end of radius, left arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S59.202K | Unspecified physeal fracture of lower end of radius, left arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S59.202P | Unspecified physeal fracture of lower end of radius, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S59.202S | Unspecified physeal fracture of lower end of radius, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S59.209  | Unspecified physeal fracture of lower end of radius, unspecified arm   | Diagnosis     | ICD-10-CM |
| S59.209A | Unspecified physeal fracture of lower end of radius, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S59.209D | Unspecified physeal fracture of lower end of radius, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S59.209G | Unspecified physeal fracture of lower end of radius, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S59.209K | Unspecified physeal fracture of lower end of radius, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S59.209P | Unspecified physeal fracture of lower end of radius, unspecified arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S59.209S | Unspecified physeal fracture of lower end of radius, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.21   | Salter-Harris Type I physeal fracture of lower end of radius   | Diagnosis     | ICD-10-CM |
| S59.211  | Salter-Harris Type I physeal fracture of lower end of radius, right arm  | Diagnosis     | ICD-10-CM |
| S59.211A | Salter-Harris Type I physeal fracture of lower end of radius, right arm, initial encounter for closed fracture               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S59.211D | Salter-Harris Type I physeal fracture of lower end of radius, right arm, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S59.211G | Salter-Harris Type I physeal fracture of lower end of radius, right arm, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S59.211K | Salter-Harris Type I physeal fracture of lower end of radius, right arm, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S59.211P | Salter-Harris Type I physeal fracture of lower end of radius, right arm, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S59.211S | Salter-Harris Type I physeal fracture of lower end of radius, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.212  | Salter-Harris Type I physeal fracture of lower end of radius, left arm  | Diagnosis     | ICD-10-CM |
| S59.212A | Salter-Harris Type I physeal fracture of lower end of radius, left arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S59.212D | Salter-Harris Type I physeal fracture of lower end of radius, left arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S59.212G | Salter-Harris Type I physeal fracture of lower end of radius, left arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S59.212K | Salter-Harris Type I physeal fracture of lower end of radius, left arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S59.212P | Salter-Harris Type I physeal fracture of lower end of radius, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S59.212S | Salter-Harris Type I physeal fracture of lower end of radius, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S59.219  | Salter-Harris Type I physeal fracture of lower end of radius, unspecified arm   | Diagnosis     | ICD-10-CM |
| S59.219A | Salter-Harris Type I physeal fracture of lower end of radius, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S59.219D | Salter-Harris Type I physeal fracture of lower end of radius, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S59.219G | Salter-Harris Type I physeal fracture of lower end of radius, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S59.219K | Salter-Harris Type I physeal fracture of lower end of radius, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S59.219P | Salter-Harris Type I physeal fracture of lower end of radius, unspecified arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S59.219S | Salter-Harris Type I physeal fracture of lower end of radius, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.22   | Salter-Harris Type II physeal fracture of lower end of radius   | Diagnosis     | ICD-10-CM |
| S59.221  | Salter-Harris Type II physeal fracture of lower end of radius, right arm  | Diagnosis     | ICD-10-CM |
| S59.221A | Salter-Harris Type II physeal fracture of lower end of radius, right arm, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S59.221D | Salter-Harris Type II physeal fracture of lower end of radius, right arm, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S59.221G | Salter-Harris Type II physeal fracture of lower end of radius, right arm, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S59.221K | Salter-Harris Type II physeal fracture of lower end of radius, right arm, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S59.221P | Salter-Harris Type II physeal fracture of lower end of radius, right arm, subsequent encounter for fracture with malunion             | Diagnosis     | ICD-10-CM |
| S59.221S | Salter-Harris Type II physeal fracture of lower end of radius, right arm, sequela   | Diagnosis     | ICD-10-CM |
| S59.222  | Salter-Harris Type II physeal fracture of lower end of radius, left arm   | Diagnosis     | ICD-10-CM |
| S59.222A | Salter-Harris Type II physeal fracture of lower end of radius, left arm, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S59.222D | Salter-Harris Type II physeal fracture of lower end of radius, left arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S59.222G | Salter-Harris Type II physeal fracture of lower end of radius, left arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S59.222K | Salter-Harris Type II physeal fracture of lower end of radius, left arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S59.222P | Salter-Harris Type II physeal fracture of lower end of radius, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S59.222S | Salter-Harris Type II physeal fracture of lower end of radius, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S59.229  | Salter-Harris Type II physeal fracture of lower end of radius, unspecified arm   | Diagnosis     | ICD-10-CM |
| S59.229A | Salter-Harris Type II physeal fracture of lower end of radius, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S59.229D | Salter-Harris Type II physeal fracture of lower end of radius, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S59.229G | Salter-Harris Type II physeal fracture of lower end of radius, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S59.229K | Salter-Harris Type II physeal fracture of lower end of radius, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S59.229P | Salter-Harris Type II physeal fracture of lower end of radius, unspecified arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S59.229S | Salter-Harris Type II physeal fracture of lower end of radius, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.23   | Salter-Harris Type III physeal fracture of lower end of radius   | Diagnosis     | ICD-10-CM |
| S59.231  | Salter-Harris Type III physeal fracture of lower end of radius, right arm  | Diagnosis     | ICD-10-CM |
| S59.231A | Salter-Harris Type III physeal fracture of lower end of radius, right arm, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S59.231D | Salter-Harris Type III physeal fracture of lower end of radius, right arm, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S59.231G | Salter-Harris Type III physeal fracture of lower end of radius, right arm, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S59.231K | Salter-Harris Type III physeal fracture of lower end of radius, right arm, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S59.231P | Salter-Harris Type III physeal fracture of lower end of radius, right arm, subsequent encounter for fracture with malunion             | Diagnosis     | ICD-10-CM |
| S59.231S | Salter-Harris Type III physeal fracture of lower end of radius, right arm, sequela   | Diagnosis     | ICD-10-CM |
| S59.232  | Salter-Harris Type III physeal fracture of lower end of radius, left arm   | Diagnosis     | ICD-10-CM |
| S59.232A | Salter-Harris Type III physeal fracture of lower end of radius, left arm, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S59.232D | Salter-Harris Type III physeal fracture of lower end of radius, left arm, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S59.232G | Salter-Harris Type III physeal fracture of lower end of radius, left arm, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S59.232K | Salter-Harris Type III physeal fracture of lower end of radius, left arm, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S59.232P | Salter-Harris Type III physeal fracture of lower end of radius, left arm, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S59.232S | Salter-Harris Type III physeal fracture of lower end of radius, left arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.239  | Salter-Harris Type III physeal fracture of lower end of radius, unspecified arm  | Diagnosis     | ICD-10-CM |
| S59.239A | Salter-Harris Type III physeal fracture of lower end of radius, unspecified arm, initial encounter for closed fracture                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S59.239D | Salter-Harris Type III physeal fracture of lower end of radius, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S59.239G | Salter-Harris Type III physeal fracture of lower end of radius, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S59.239K | Salter-Harris Type III physeal fracture of lower end of radius, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S59.239P | Salter-Harris Type III physeal fracture of lower end of radius, unspecified arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S59.239S | Salter-Harris Type III physeal fracture of lower end of radius, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.24   | Salter-Harris Type IV physeal fracture of lower end of radius   | Diagnosis     | ICD-10-CM |
| S59.241  | Salter-Harris Type IV physeal fracture of lower end of radius, right arm  | Diagnosis     | ICD-10-CM |
| S59.241A | Salter-Harris Type IV physeal fracture of lower end of radius, right arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S59.241D | Salter-Harris Type IV physeal fracture of lower end of radius, right arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S59.241G | Salter-Harris Type IV physeal fracture of lower end of radius, right arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S59.241K | Salter-Harris Type IV physeal fracture of lower end of radius, right arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S59.241P | Salter-Harris Type IV physeal fracture of lower end of radius, right arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S59.241S | Salter-Harris Type IV physeal fracture of lower end of radius, right arm, sequela   | Diagnosis     | ICD-10-CM |
| S59.242  | Salter-Harris Type IV physeal fracture of lower end of radius, left arm   | Diagnosis     | ICD-10-CM |
| S59.242A | Salter-Harris Type IV physeal fracture of lower end of radius, left arm, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S59.242D | Salter-Harris Type IV physeal fracture of lower end of radius, left arm, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S59.242G | Salter-Harris Type IV physeal fracture of lower end of radius, left arm, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S59.242K | Salter-Harris Type IV physeal fracture of lower end of radius, left arm, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S59.242P | Salter-Harris Type IV physeal fracture of lower end of radius, left arm, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S59.242S | Salter-Harris Type IV physeal fracture of lower end of radius, left arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.249  | Salter-Harris Type IV physeal fracture of lower end of radius, unspecified arm  | Diagnosis     | ICD-10-CM |
| S59.249A | Salter-Harris Type IV physeal fracture of lower end of radius, unspecified arm, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S59.249D | Salter-Harris Type IV physeal fracture of lower end of radius, unspecified arm, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S59.249G | Salter-Harris Type IV physeal fracture of lower end of radius, unspecified arm, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S59.249K | Salter-Harris Type IV physeal fracture of lower end of radius, unspecified arm, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S59.249P | Salter-Harris Type IV physeal fracture of lower end of radius, unspecified arm, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S59.249S | Salter-Harris Type IV physeal fracture of lower end of radius, unspecified arm, sequela   | Diagnosis     | ICD-10-CM |
| S59.29   | Other physeal fracture of lower end of radius   | Diagnosis     | ICD-10-CM |
| S59.291  | Other physeal fracture of lower end of radius, right arm  | Diagnosis     | ICD-10-CM |
| S59.291A | Other physeal fracture of lower end of radius, right arm, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S59.291D | Other physeal fracture of lower end of radius, right arm, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S59.291G | Other physeal fracture of lower end of radius, right arm, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S59.291K | Other physeal fracture of lower end of radius, right arm, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S59.291P | Other physeal fracture of lower end of radius, right arm, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S59.291S | Other physeal fracture of lower end of radius, right arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.292  | Other physeal fracture of lower end of radius, left arm  | Diagnosis     | ICD-10-CM |
| S59.292A | Other physeal fracture of lower end of radius, left arm, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S59.292D | Other physeal fracture of lower end of radius, left arm, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S59.292G | Other physeal fracture of lower end of radius, left arm, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S59.292K | Other physeal fracture of lower end of radius, left arm, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S59.292P | Other physeal fracture of lower end of radius, left arm, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S59.292S | Other physeal fracture of lower end of radius, left arm, sequela   | Diagnosis     | ICD-10-CM |
| S59.299  | Other physeal fracture of lower end of radius, unspecified arm   | Diagnosis     | ICD-10-CM |
| S59.299A | Other physeal fracture of lower end of radius, unspecified arm, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S59.299D | Other physeal fracture of lower end of radius, unspecified arm, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S59.299G | Other physeal fracture of lower end of radius, unspecified arm, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S59.299K | Other physeal fracture of lower end of radius, unspecified arm, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S59.299P | Other physeal fracture of lower end of radius, unspecified arm, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S59.299S | Other physeal fracture of lower end of radius, unspecified arm, sequela  | Diagnosis     | ICD-10-CM |
| S59.8    | Other specified injuries of elbow and forearm  | Diagnosis     | ICD-10-CM |
| S59.80   | Other specified injuries of elbow  | Diagnosis     | ICD-10-CM |
| S59.801  | Other specified injuries of right elbow  | Diagnosis     | ICD-10-CM |
| S59.801A | Other specified injuries of right elbow, initial encounter   | Diagnosis     | ICD-10-CM |
| S59.801D | Other specified injuries of right elbow, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S59.801S | Other specified injuries of right elbow, sequela   | Diagnosis     | ICD-10-CM |
| S59.802  | Other specified injuries of left elbow   | Diagnosis     | ICD-10-CM |
| S59.802A | Other specified injuries of left elbow, initial encounter  | Diagnosis     | ICD-10-CM |
| S59.802D | Other specified injuries of left elbow, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S59.802S | Other specified injuries of left elbow, sequela  | Diagnosis     | ICD-10-CM |
| S59.809  | Other specified injuries of unspecified elbow  | Diagnosis     | ICD-10-CM |
| S59.809A | Other specified injuries of unspecified elbow, initial encounter   | Diagnosis     | ICD-10-CM |
| S59.809D | Other specified injuries of unspecified elbow, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S59.809S | Other specified injuries of unspecified elbow, sequela   | Diagnosis     | ICD-10-CM |
| S59.81   | Other specified injuries of forearm  | Diagnosis     | ICD-10-CM |
| S59.811  | Other specified injuries right forearm   | Diagnosis     | ICD-10-CM |
| S59.811A | Other specified injuries right forearm, initial encounter  | Diagnosis     | ICD-10-CM |
| S59.811D | Other specified injuries right forearm, subsequent encounter   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S59.811S | Other specified injuries right forearm, sequela                              | Diagnosis     | ICD-10-CM |
| S59.812  | Other specified injuries left forearm  | Diagnosis     | ICD-10-CM |
| S59.812A | Other specified injuries left forearm, initial encounter                     | Diagnosis     | ICD-10-CM |
| S59.812D | Other specified injuries left forearm, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S59.812S | Other specified injuries left forearm, sequela                               | Diagnosis     | ICD-10-CM |
| S59.819  | Other specified injuries unspecified forearm                                 | Diagnosis     | ICD-10-CM |
| S59.819A | Other specified injuries unspecified forearm, initial encounter              | Diagnosis     | ICD-10-CM |
| S59.819D | Other specified injuries unspecified forearm, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S59.819S | Other specified injuries unspecified forearm, sequela                        | Diagnosis     | ICD-10-CM |
| S59.9    | Unspecified injury of elbow and forearm                                      | Diagnosis     | ICD-10-CM |
| S59.90   | Unspecified injury of elbow  | Diagnosis     | ICD-10-CM |
| S59.901  | Unspecified injury of right elbow  | Diagnosis     | ICD-10-CM |
| S59.901A | Unspecified injury of right elbow, initial encounter                         | Diagnosis     | ICD-10-CM |
| S59.901D | Unspecified injury of right elbow, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S59.901S | Unspecified injury of right elbow, sequela                                   | Diagnosis     | ICD-10-CM |
| S59.902  | Unspecified injury of left elbow   | Diagnosis     | ICD-10-CM |
| S59.902A | Unspecified injury of left elbow, initial encounter                          | Diagnosis     | ICD-10-CM |
| S59.902D | Unspecified injury of left elbow, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S59.902S | Unspecified injury of left elbow, sequela                                    | Diagnosis     | ICD-10-CM |
| S59.909  | Unspecified injury of unspecified elbow                                      | Diagnosis     | ICD-10-CM |
| S59.909A | Unspecified injury of unspecified elbow, initial encounter                   | Diagnosis     | ICD-10-CM |
| S59.909D | Unspecified injury of unspecified elbow, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S59.909S | Unspecified injury of unspecified elbow, sequela                             | Diagnosis     | ICD-10-CM |
| S59.91   | Unspecified injury of forearm  | Diagnosis     | ICD-10-CM |
| S59.911  | Unspecified injury of right forearm  | Diagnosis     | ICD-10-CM |
| S59.911A | Unspecified injury of right forearm, initial encounter                       | Diagnosis     | ICD-10-CM |
| S59.911D | Unspecified injury of right forearm, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S59.911S | Unspecified injury of right forearm, sequela                                 | Diagnosis     | ICD-10-CM |
| S59.912  | Unspecified injury of left forearm   | Diagnosis     | ICD-10-CM |
| S59.912A | Unspecified injury of left forearm, initial encounter                        | Diagnosis     | ICD-10-CM |
| S59.912D | Unspecified injury of left forearm, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S59.912S | Unspecified injury of left forearm, sequela                                  | Diagnosis     | ICD-10-CM |
| S59.919  | Unspecified injury of unspecified forearm                                    | Diagnosis     | ICD-10-CM |
| S59.919A | Unspecified injury of unspecified forearm, initial encounter                 | Diagnosis     | ICD-10-CM |
| S59.919D | Unspecified injury of unspecified forearm, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S59.919S | Unspecified injury of unspecified forearm, sequela                           | Diagnosis     | ICD-10-CM |
| S60      | Superficial injury of wrist, hand and fingers                                | Diagnosis     | ICD-10-CM |
| S60.0    | Contusion of finger without damage to nail                                   | Diagnosis     | ICD-10-CM |
| S60.00   | Contusion of unspecified finger without damage to nail                       | Diagnosis     | ICD-10-CM |
| S60.00XA | Contusion of unspecified finger without damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S60.00XD | Contusion of unspecified finger without damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S60.00XS | Contusion of unspecified finger without damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S60.01   | Contusion of thumb without damage to nail                                    | Diagnosis     | ICD-10-CM |
| S60.011  | Contusion of right thumb without damage to nail                              | Diagnosis     | ICD-10-CM |
| S60.011A | Contusion of right thumb without damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S60.011D | Contusion of right thumb without damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S60.011S | Contusion of right thumb without damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S60.012  | Contusion of left thumb without damage to nail                               | Diagnosis     | ICD-10-CM |
| S60.012A | Contusion of left thumb without damage to nail, initial encounter            | Diagnosis     | ICD-10-CM |
| S60.012D | Contusion of left thumb without damage to nail, subsequent encounter         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S60.012S | Contusion of left thumb without damage to nail, sequela                             | Diagnosis     | ICD-10-CM |
| S60.019  | Contusion of unspecified thumb without damage to nail                               | Diagnosis     | ICD-10-CM |
| S60.019A | Contusion of unspecified thumb without damage to nail, initial encounter            | Diagnosis     | ICD-10-CM |
| S60.019D | Contusion of unspecified thumb without damage to nail, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S60.019S | Contusion of unspecified thumb without damage to nail, sequela                      | Diagnosis     | ICD-10-CM |
| S60.02   | Contusion of index finger without damage to nail                                    | Diagnosis     | ICD-10-CM |
| S60.021  | Contusion of right index finger without damage to nail                              | Diagnosis     | ICD-10-CM |
| S60.021A | Contusion of right index finger without damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S60.021D | Contusion of right index finger without damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S60.021S | Contusion of right index finger without damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S60.022  | Contusion of left index finger without damage to nail                               | Diagnosis     | ICD-10-CM |
| S60.022A | Contusion of left index finger without damage to nail, initial encounter            | Diagnosis     | ICD-10-CM |
| S60.022D | Contusion of left index finger without damage to nail, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S60.022S | Contusion of left index finger without damage to nail, sequela                      | Diagnosis     | ICD-10-CM |
| S60.029  | Contusion of unspecified index finger without damage to nail                        | Diagnosis     | ICD-10-CM |
| S60.029A | Contusion of unspecified index finger without damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S60.029D | Contusion of unspecified index finger without damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S60.029S | Contusion of unspecified index finger without damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S60.03   | Contusion of middle finger without damage to nail                                   | Diagnosis     | ICD-10-CM |
| S60.031  | Contusion of right middle finger without damage to nail                             | Diagnosis     | ICD-10-CM |
| S60.031A | Contusion of right middle finger without damage to nail, initial encounter          | Diagnosis     | ICD-10-CM |
| S60.031D | Contusion of right middle finger without damage to nail, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S60.031S | Contusion of right middle finger without damage to nail, sequela                    | Diagnosis     | ICD-10-CM |
| S60.032  | Contusion of left middle finger without damage to nail                              | Diagnosis     | ICD-10-CM |
| S60.032A | Contusion of left middle finger without damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S60.032D | Contusion of left middle finger without damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S60.032S | Contusion of left middle finger without damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S60.039  | Contusion of unspecified middle finger without damage to nail                       | Diagnosis     | ICD-10-CM |
| S60.039A | Contusion of unspecified middle finger without damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S60.039D | Contusion of unspecified middle finger without damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S60.039S | Contusion of unspecified middle finger without damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S60.04   | Contusion of ring finger without damage to nail                                     | Diagnosis     | ICD-10-CM |
| S60.041  | Contusion of right ring finger without damage to nail                               | Diagnosis     | ICD-10-CM |
| S60.041A | Contusion of right ring finger without damage to nail, initial encounter            | Diagnosis     | ICD-10-CM |
| S60.041D | Contusion of right ring finger without damage to nail, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S60.041S | Contusion of right ring finger without damage to nail, sequela                      | Diagnosis     | ICD-10-CM |
| S60.042  | Contusion of left ring finger without damage to nail                                | Diagnosis     | ICD-10-CM |
| S60.042A | Contusion of left ring finger without damage to nail, initial encounter             | Diagnosis     | ICD-10-CM |
| S60.042D | Contusion of left ring finger without damage to nail, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S60.042S | Contusion of left ring finger without damage to nail, sequela                       | Diagnosis     | ICD-10-CM |
| S60.049  | Contusion of unspecified ring finger without damage to nail                         | Diagnosis     | ICD-10-CM |
| S60.049A | Contusion of unspecified ring finger without damage to nail, initial encounter      | Diagnosis     | ICD-10-CM |
| S60.049D | Contusion of unspecified ring finger without damage to nail, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S60.049S | Contusion of unspecified ring finger without damage to nail, sequela                | Diagnosis     | ICD-10-CM |
| S60.05   | Contusion of little finger without damage to nail                                   | Diagnosis     | ICD-10-CM |
| S60.051  | Contusion of right little finger without damage to nail                             | Diagnosis     | ICD-10-CM |
| S60.051A | Contusion of right little finger without damage to nail, initial encounter          | Diagnosis     | ICD-10-CM |
| S60.051D | Contusion of right little finger without damage to nail, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S60.051S | Contusion of right little finger without damage to nail, sequela                    | Diagnosis     | ICD-10-CM |
| S60.052  | Contusion of left little finger without damage to nail                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S60.052A | Contusion of left little finger without damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S60.052D | Contusion of left little finger without damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S60.052S | Contusion of left little finger without damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S60.059  | Contusion of unspecified little finger without damage to nail                       | Diagnosis     | ICD-10-CM |
| S60.059A | Contusion of unspecified little finger without damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S60.059D | Contusion of unspecified little finger without damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S60.059S | Contusion of unspecified little finger without damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S60.1    | Contusion of finger with damage to nail   | Diagnosis     | ICD-10-CM |
| S60.10   | Contusion of unspecified finger with damage to nail                                 | Diagnosis     | ICD-10-CM |
| S60.10XA | Contusion of unspecified finger with damage to nail, initial encounter              | Diagnosis     | ICD-10-CM |
| S60.10XD | Contusion of unspecified finger with damage to nail, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S60.10XS | Contusion of unspecified finger with damage to nail, sequela                        | Diagnosis     | ICD-10-CM |
| S60.11   | Contusion of thumb with damage to nail  | Diagnosis     | ICD-10-CM |
| S60.111  | Contusion of right thumb with damage to nail  | Diagnosis     | ICD-10-CM |
| S60.111A | Contusion of right thumb with damage to nail, initial encounter                     | Diagnosis     | ICD-10-CM |
| S60.111D | Contusion of right thumb with damage to nail, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S60.111S | Contusion of right thumb with damage to nail, sequela                               | Diagnosis     | ICD-10-CM |
| S60.112  | Contusion of left thumb with damage to nail   | Diagnosis     | ICD-10-CM |
| S60.112A | Contusion of left thumb with damage to nail, initial encounter                      | Diagnosis     | ICD-10-CM |
| S60.112D | Contusion of left thumb with damage to nail, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S60.112S | Contusion of left thumb with damage to nail, sequela                                | Diagnosis     | ICD-10-CM |
| S60.119  | Contusion of unspecified thumb with damage to nail                                  | Diagnosis     | ICD-10-CM |
| S60.119A | Contusion of unspecified thumb with damage to nail, initial encounter               | Diagnosis     | ICD-10-CM |
| S60.119D | Contusion of unspecified thumb with damage to nail, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S60.119S | Contusion of unspecified thumb with damage to nail, sequela                         | Diagnosis     | ICD-10-CM |
| S60.12   | Contusion of index finger with damage to nail                                       | Diagnosis     | ICD-10-CM |
| S60.121  | Contusion of right index finger with damage to nail                                 | Diagnosis     | ICD-10-CM |
| S60.121A | Contusion of right index finger with damage to nail, initial encounter              | Diagnosis     | ICD-10-CM |
| S60.121D | Contusion of right index finger with damage to nail, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S60.121S | Contusion of right index finger with damage to nail, sequela                        | Diagnosis     | ICD-10-CM |
| S60.122  | Contusion of left index finger with damage to nail                                  | Diagnosis     | ICD-10-CM |
| S60.122A | Contusion of left index finger with damage to nail, initial encounter               | Diagnosis     | ICD-10-CM |
| S60.122D | Contusion of left index finger with damage to nail, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S60.122S | Contusion of left index finger with damage to nail, sequela                         | Diagnosis     | ICD-10-CM |
| S60.129  | Contusion of unspecified index finger with damage to nail                           | Diagnosis     | ICD-10-CM |
| S60.129A | Contusion of unspecified index finger with damage to nail, initial encounter        | Diagnosis     | ICD-10-CM |
| S60.129D | Contusion of unspecified index finger with damage to nail, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S60.129S | Contusion of unspecified index finger with damage to nail, sequela                  | Diagnosis     | ICD-10-CM |
| S60.13   | Contusion of middle finger with damage to nail                                      | Diagnosis     | ICD-10-CM |
| S60.131  | Contusion of right middle finger with damage to nail                                | Diagnosis     | ICD-10-CM |
| S60.131A | Contusion of right middle finger with damage to nail, initial encounter             | Diagnosis     | ICD-10-CM |
| S60.131D | Contusion of right middle finger with damage to nail, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S60.131S | Contusion of right middle finger with damage to nail, sequela                       | Diagnosis     | ICD-10-CM |
| S60.132  | Contusion of left middle finger with damage to nail                                 | Diagnosis     | ICD-10-CM |
| S60.132A | Contusion of left middle finger with damage to nail, initial encounter              | Diagnosis     | ICD-10-CM |
| S60.132D | Contusion of left middle finger with damage to nail, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S60.132S | Contusion of left middle finger with damage to nail, sequela                        | Diagnosis     | ICD-10-CM |
| S60.139  | Contusion of unspecified middle finger with damage to nail                          | Diagnosis     | ICD-10-CM |
| S60.139A | Contusion of unspecified middle finger with damage to nail, initial encounter       | Diagnosis     | ICD-10-CM |
| S60.139D | Contusion of unspecified middle finger with damage to nail, subsequent encounter    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S60.139S | Contusion of unspecified middle finger with damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S60.14   | Contusion of ring finger with damage to nail                                     | Diagnosis     | ICD-10-CM |
| S60.141  | Contusion of right ring finger with damage to nail                               | Diagnosis     | ICD-10-CM |
| S60.141A | Contusion of right ring finger with damage to nail, initial encounter            | Diagnosis     | ICD-10-CM |
| S60.141D | Contusion of right ring finger with damage to nail, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S60.141S | Contusion of right ring finger with damage to nail, sequela                      | Diagnosis     | ICD-10-CM |
| S60.142  | Contusion of left ring finger with damage to nail                                | Diagnosis     | ICD-10-CM |
| S60.142A | Contusion of left ring finger with damage to nail, initial encounter             | Diagnosis     | ICD-10-CM |
| S60.142D | Contusion of left ring finger with damage to nail, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S60.142S | Contusion of left ring finger with damage to nail, sequela                       | Diagnosis     | ICD-10-CM |
| S60.149  | Contusion of unspecified ring finger with damage to nail                         | Diagnosis     | ICD-10-CM |
| S60.149A | Contusion of unspecified ring finger with damage to nail, initial encounter      | Diagnosis     | ICD-10-CM |
| S60.149D | Contusion of unspecified ring finger with damage to nail, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S60.149S | Contusion of unspecified ring finger with damage to nail, sequela                | Diagnosis     | ICD-10-CM |
| S60.15   | Contusion of little finger with damage to nail                                   | Diagnosis     | ICD-10-CM |
| S60.151  | Contusion of right little finger with damage to nail                             | Diagnosis     | ICD-10-CM |
| S60.151A | Contusion of right little finger with damage to nail, initial encounter          | Diagnosis     | ICD-10-CM |
| S60.151D | Contusion of right little finger with damage to nail, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S60.151S | Contusion of right little finger with damage to nail, sequela                    | Diagnosis     | ICD-10-CM |
| S60.152  | Contusion of left little finger with damage to nail                              | Diagnosis     | ICD-10-CM |
| S60.152A | Contusion of left little finger with damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S60.152D | Contusion of left little finger with damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S60.152S | Contusion of left little finger with damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S60.159  | Contusion of unspecified little finger with damage to nail                       | Diagnosis     | ICD-10-CM |
| S60.159A | Contusion of unspecified little finger with damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S60.159D | Contusion of unspecified little finger with damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S60.159S | Contusion of unspecified little finger with damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S60.2    | Contusion of wrist and hand  | Diagnosis     | ICD-10-CM |
| S60.21   | Contusion of wrist   | Diagnosis     | ICD-10-CM |
| S60.211  | Contusion of right wrist   | Diagnosis     | ICD-10-CM |
| S60.211A | Contusion of right wrist, initial encounter                                      | Diagnosis     | ICD-10-CM |
| S60.211D | Contusion of right wrist, subsequent encounter                                   | Diagnosis     | ICD-10-CM |
| S60.211S | Contusion of right wrist, sequela  | Diagnosis     | ICD-10-CM |
| S60.212  | Contusion of left wrist  | Diagnosis     | ICD-10-CM |
| S60.212A | Contusion of left wrist, initial encounter                                       | Diagnosis     | ICD-10-CM |
| S60.212D | Contusion of left wrist, subsequent encounter                                    | Diagnosis     | ICD-10-CM |
| S60.212S | Contusion of left wrist, sequela   | Diagnosis     | ICD-10-CM |
| S60.219  | Contusion of unspecified wrist   | Diagnosis     | ICD-10-CM |
| S60.219A | Contusion of unspecified wrist, initial encounter                                | Diagnosis     | ICD-10-CM |
| S60.219D | Contusion of unspecified wrist, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S60.219S | Contusion of unspecified wrist, sequela  | Diagnosis     | ICD-10-CM |
| S60.22   | Contusion of hand  | Diagnosis     | ICD-10-CM |
| S60.221  | Contusion of right hand  | Diagnosis     | ICD-10-CM |
| S60.221A | Contusion of right hand, initial encounter                                       | Diagnosis     | ICD-10-CM |
| S60.221D | Contusion of right hand, subsequent encounter                                    | Diagnosis     | ICD-10-CM |
| S60.221S | Contusion of right hand, sequela   | Diagnosis     | ICD-10-CM |
| S60.222  | Contusion of left hand   | Diagnosis     | ICD-10-CM |
| S60.222A | Contusion of left hand, initial encounter  | Diagnosis     | ICD-10-CM |
| S60.222D | Contusion of left hand, subsequent encounter                                     | Diagnosis     | ICD-10-CM |
| S60.222S | Contusion of left hand, sequela  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S60.229  | Contusion of unspecified hand                                    | Diagnosis     | ICD-10-CM |
| S60.229A | Contusion of unspecified hand, initial encounter                 | Diagnosis     | ICD-10-CM |
| S60.229D | Contusion of unspecified hand, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S60.229S | Contusion of unspecified hand, sequela                           | Diagnosis     | ICD-10-CM |
| S60.3    | Other superficial injuries of thumb                              | Diagnosis     | ICD-10-CM |
| S60.31   | Abrasion of thumb  | Diagnosis     | ICD-10-CM |
| S60.311  | Abrasion of right thumb  | Diagnosis     | ICD-10-CM |
| S60.311A | Abrasion of right thumb, initial encounter                       | Diagnosis     | ICD-10-CM |
| S60.311D | Abrasion of right thumb, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S60.311S | Abrasion of right thumb, sequela                                 | Diagnosis     | ICD-10-CM |
| S60.312  | Abrasion of left thumb   | Diagnosis     | ICD-10-CM |
| S60.312A | Abrasion of left thumb, initial encounter                        | Diagnosis     | ICD-10-CM |
| S60.312D | Abrasion of left thumb, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S60.312S | Abrasion of left thumb, sequela                                  | Diagnosis     | ICD-10-CM |
| S60.319  | Abrasion of unspecified thumb                                    | Diagnosis     | ICD-10-CM |
| S60.319A | Abrasion of unspecified thumb, initial encounter                 | Diagnosis     | ICD-10-CM |
| S60.319D | Abrasion of unspecified thumb, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S60.319S | Abrasion of unspecified thumb, sequela                           | Diagnosis     | ICD-10-CM |
| S60.32   | Blister (nonthermal) of thumb                                    | Diagnosis     | ICD-10-CM |
| S60.321  | Blister (nonthermal) of right thumb                              | Diagnosis     | ICD-10-CM |
| S60.321A | Blister (nonthermal) of right thumb, initial encounter           | Diagnosis     | ICD-10-CM |
| S60.321D | Blister (nonthermal) of right thumb, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S60.321S | Blister (nonthermal) of right thumb, sequela                     | Diagnosis     | ICD-10-CM |
| S60.322  | Blister (nonthermal) of left thumb                               | Diagnosis     | ICD-10-CM |
| S60.322A | Blister (nonthermal) of left thumb, initial encounter            | Diagnosis     | ICD-10-CM |
| S60.322D | Blister (nonthermal) of left thumb, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S60.322S | Blister (nonthermal) of left thumb, sequela                      | Diagnosis     | ICD-10-CM |
| S60.329  | Blister (nonthermal) of unspecified thumb                        | Diagnosis     | ICD-10-CM |
| S60.329A | Blister (nonthermal) of unspecified thumb, initial encounter     | Diagnosis     | ICD-10-CM |
| S60.329D | Blister (nonthermal) of unspecified thumb, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S60.329S | Blister (nonthermal) of unspecified thumb, sequela               | Diagnosis     | ICD-10-CM |
| S60.34   | External constriction of thumb                                   | Diagnosis     | ICD-10-CM |
| S60.341  | External constriction of right thumb                             | Diagnosis     | ICD-10-CM |
| S60.341A | External constriction of right thumb, initial encounter          | Diagnosis     | ICD-10-CM |
| S60.341D | External constriction of right thumb, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S60.341S | External constriction of right thumb, sequela                    | Diagnosis     | ICD-10-CM |
| S60.342  | External constriction of left thumb                              | Diagnosis     | ICD-10-CM |
| S60.342A | External constriction of left thumb, initial encounter           | Diagnosis     | ICD-10-CM |
| S60.342D | External constriction of left thumb, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S60.342S | External constriction of left thumb, sequela                     | Diagnosis     | ICD-10-CM |
| S60.349  | External constriction of unspecified thumb                       | Diagnosis     | ICD-10-CM |
| S60.349A | External constriction of unspecified thumb, initial encounter    | Diagnosis     | ICD-10-CM |
| S60.349D | External constriction of unspecified thumb, subsequent encounter | Diagnosis     | ICD-10-CM |
| S60.349S | External constriction of unspecified thumb, sequela              | Diagnosis     | ICD-10-CM |
| S60.35   | Superficial foreign body of thumb                                | Diagnosis     | ICD-10-CM |
| S60.351  | Superficial foreign body of right thumb                          | Diagnosis     | ICD-10-CM |
| S60.351A | Superficial foreign body of right thumb, initial encounter       | Diagnosis     | ICD-10-CM |
| S60.351D | Superficial foreign body of right thumb, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S60.351S | Superficial foreign body of right thumb, sequela                 | Diagnosis     | ICD-10-CM |
| S60.352  | Superficial foreign body of left thumb                           | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S60.352A | Superficial foreign body of left thumb, initial encounter             | Diagnosis     | ICD-10-CM |
| S60.352D | Superficial foreign body of left thumb, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S60.352S | Superficial foreign body of left thumb, sequela                       | Diagnosis     | ICD-10-CM |
| S60.359  | Superficial foreign body of unspecified thumb                         | Diagnosis     | ICD-10-CM |
| S60.359A | Superficial foreign body of unspecified thumb, initial encounter      | Diagnosis     | ICD-10-CM |
| S60.359D | Superficial foreign body of unspecified thumb, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S60.359S | Superficial foreign body of unspecified thumb, sequela                | Diagnosis     | ICD-10-CM |
| S60.36   | Insect bite (nonvenomous) of thumb                                    | Diagnosis     | ICD-10-CM |
| S60.361  | Insect bite (nonvenomous) of right thumb                              | Diagnosis     | ICD-10-CM |
| S60.361A | Insect bite (nonvenomous) of right thumb, initial encounter           | Diagnosis     | ICD-10-CM |
| S60.361D | Insect bite (nonvenomous) of right thumb, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S60.361S | Insect bite (nonvenomous) of right thumb, sequela                     | Diagnosis     | ICD-10-CM |
| S60.362  | Insect bite (nonvenomous) of left thumb                               | Diagnosis     | ICD-10-CM |
| S60.362A | Insect bite (nonvenomous) of left thumb, initial encounter            | Diagnosis     | ICD-10-CM |
| S60.362D | Insect bite (nonvenomous) of left thumb, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S60.362S | Insect bite (nonvenomous) of left thumb, sequela                      | Diagnosis     | ICD-10-CM |
| S60.369  | Insect bite (nonvenomous) of unspecified thumb                        | Diagnosis     | ICD-10-CM |
| S60.369A | Insect bite (nonvenomous) of unspecified thumb, initial encounter     | Diagnosis     | ICD-10-CM |
| S60.369D | Insect bite (nonvenomous) of unspecified thumb, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S60.369S | Insect bite (nonvenomous) of unspecified thumb, sequela               | Diagnosis     | ICD-10-CM |
| S60.37   | Other superficial bite of thumb                                       | Diagnosis     | ICD-10-CM |
| S60.371  | Other superficial bite of right thumb                                 | Diagnosis     | ICD-10-CM |
| S60.371A | Other superficial bite of right thumb, initial encounter              | Diagnosis     | ICD-10-CM |
| S60.371D | Other superficial bite of right thumb, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S60.371S | Other superficial bite of right thumb, sequela                        | Diagnosis     | ICD-10-CM |
| S60.372  | Other superficial bite of left thumb                                  | Diagnosis     | ICD-10-CM |
| S60.372A | Other superficial bite of left thumb, initial encounter               | Diagnosis     | ICD-10-CM |
| S60.372D | Other superficial bite of left thumb, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S60.372S | Other superficial bite of left thumb, sequela                         | Diagnosis     | ICD-10-CM |
| S60.379  | Other superficial bite of unspecified thumb                           | Diagnosis     | ICD-10-CM |
| S60.379A | Other superficial bite of unspecified thumb, initial encounter        | Diagnosis     | ICD-10-CM |
| S60.379D | Other superficial bite of unspecified thumb, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S60.379S | Other superficial bite of unspecified thumb, sequela                  | Diagnosis     | ICD-10-CM |
| S60.39   | Other superficial injuries of thumb                                   | Diagnosis     | ICD-10-CM |
| S60.391  | Other superficial injuries of right thumb                             | Diagnosis     | ICD-10-CM |
| S60.391A | Other superficial injuries of right thumb, initial encounter          | Diagnosis     | ICD-10-CM |
| S60.391D | Other superficial injuries of right thumb, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S60.391S | Other superficial injuries of right thumb, sequela                    | Diagnosis     | ICD-10-CM |
| S60.392  | Other superficial injuries of left thumb                              | Diagnosis     | ICD-10-CM |
| S60.392A | Other superficial injuries of left thumb, initial encounter           | Diagnosis     | ICD-10-CM |
| S60.392D | Other superficial injuries of left thumb, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S60.392S | Other superficial injuries of left thumb, sequela                     | Diagnosis     | ICD-10-CM |
| S60.399  | Other superficial injuries of unspecified thumb                       | Diagnosis     | ICD-10-CM |
| S60.399A | Other superficial injuries of unspecified thumb, initial encounter    | Diagnosis     | ICD-10-CM |
| S60.399D | Other superficial injuries of unspecified thumb, subsequent encounter | Diagnosis     | ICD-10-CM |
| S60.399S | Other superficial injuries of unspecified thumb, sequela              | Diagnosis     | ICD-10-CM |
| S60.4    | Other superficial injuries of other fingers                           | Diagnosis     | ICD-10-CM |
| S60.41   | Abrasion of fingers   | Diagnosis     | ICD-10-CM |
| S60.410  | Abrasion of right index finger  | Diagnosis     | ICD-10-CM |
| S60.410A | Abrasion of right index finger, initial encounter                     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S60.410D | Abrasion of right index finger, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S60.410S | Abrasion of right index finger, sequela                           | Diagnosis     | ICD-10-CM |
| S60.411  | Abrasion of left index finger                                     | Diagnosis     | ICD-10-CM |
| S60.411A | Abrasion of left index finger, initial encounter                  | Diagnosis     | ICD-10-CM |
| S60.411D | Abrasion of left index finger, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S60.411S | Abrasion of left index finger, sequela                            | Diagnosis     | ICD-10-CM |
| S60.412  | Abrasion of right middle finger                                   | Diagnosis     | ICD-10-CM |
| S60.412A | Abrasion of right middle finger, initial encounter                | Diagnosis     | ICD-10-CM |
| S60.412D | Abrasion of right middle finger, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S60.412S | Abrasion of right middle finger, sequela                          | Diagnosis     | ICD-10-CM |
| S60.413  | Abrasion of left middle finger                                    | Diagnosis     | ICD-10-CM |
| S60.413A | Abrasion of left middle finger, initial encounter                 | Diagnosis     | ICD-10-CM |
| S60.413D | Abrasion of left middle finger, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S60.413S | Abrasion of left middle finger, sequela                           | Diagnosis     | ICD-10-CM |
| S60.414  | Abrasion of right ring finger                                     | Diagnosis     | ICD-10-CM |
| S60.414A | Abrasion of right ring finger, initial encounter                  | Diagnosis     | ICD-10-CM |
| S60.414D | Abrasion of right ring finger, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S60.414S | Abrasion of right ring finger, sequela                            | Diagnosis     | ICD-10-CM |
| S60.415  | Abrasion of left ring finger                                      | Diagnosis     | ICD-10-CM |
| S60.415A | Abrasion of left ring finger, initial encounter                   | Diagnosis     | ICD-10-CM |
| S60.415D | Abrasion of left ring finger, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S60.415S | Abrasion of left ring finger, sequela                             | Diagnosis     | ICD-10-CM |
| S60.416  | Abrasion of right little finger                                   | Diagnosis     | ICD-10-CM |
| S60.416A | Abrasion of right little finger, initial encounter                | Diagnosis     | ICD-10-CM |
| S60.416D | Abrasion of right little finger, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S60.416S | Abrasion of right little finger, sequela                          | Diagnosis     | ICD-10-CM |
| S60.417  | Abrasion of left little finger                                    | Diagnosis     | ICD-10-CM |
| S60.417A | Abrasion of left little finger, initial encounter                 | Diagnosis     | ICD-10-CM |
| S60.417D | Abrasion of left little finger, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S60.417S | Abrasion of left little finger, sequela                           | Diagnosis     | ICD-10-CM |
| S60.418  | Abrasion of other finger  | Diagnosis     | ICD-10-CM |
| S60.418A | Abrasion of other finger, initial encounter                       | Diagnosis     | ICD-10-CM |
| S60.418D | Abrasion of other finger, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S60.418S | Abrasion of other finger, sequela                                 | Diagnosis     | ICD-10-CM |
| S60.419  | Abrasion of unspecified finger                                    | Diagnosis     | ICD-10-CM |
| S60.419A | Abrasion of unspecified finger, initial encounter                 | Diagnosis     | ICD-10-CM |
| S60.419D | Abrasion of unspecified finger, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S60.419S | Abrasion of unspecified finger, sequela                           | Diagnosis     | ICD-10-CM |
| S60.42   | Blister (nonthermal) of fingers                                   | Diagnosis     | ICD-10-CM |
| S60.420  | Blister (nonthermal) of right index finger                        | Diagnosis     | ICD-10-CM |
| S60.420A | Blister (nonthermal) of right index finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S60.420D | Blister (nonthermal) of right index finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S60.420S | Blister (nonthermal) of right index finger, sequela               | Diagnosis     | ICD-10-CM |
| S60.421  | Blister (nonthermal) of left index finger                         | Diagnosis     | ICD-10-CM |
| S60.421A | Blister (nonthermal) of left index finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S60.421D | Blister (nonthermal) of left index finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S60.421S | Blister (nonthermal) of left index finger, sequela                | Diagnosis     | ICD-10-CM |
| S60.422  | Blister (nonthermal) of right middle finger                       | Diagnosis     | ICD-10-CM |
| S60.422A | Blister (nonthermal) of right middle finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S60.422D | Blister (nonthermal) of right middle finger, subsequent encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S60.422S | Blister (nonthermal) of right middle finger, sequela               | Diagnosis     | ICD-10-CM |
| S60.423  | Blister (nonthermal) of left middle finger                         | Diagnosis     | ICD-10-CM |
| S60.423A | Blister (nonthermal) of left middle finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S60.423D | Blister (nonthermal) of left middle finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S60.423S | Blister (nonthermal) of left middle finger, sequela                | Diagnosis     | ICD-10-CM |
| S60.424  | Blister (nonthermal) of right ring finger                          | Diagnosis     | ICD-10-CM |
| S60.424A | Blister (nonthermal) of right ring finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S60.424D | Blister (nonthermal) of right ring finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S60.424S | Blister (nonthermal) of right ring finger, sequela                 | Diagnosis     | ICD-10-CM |
| S60.425  | Blister (nonthermal) of left ring finger                           | Diagnosis     | ICD-10-CM |
| S60.425A | Blister (nonthermal) of left ring finger, initial encounter        | Diagnosis     | ICD-10-CM |
| S60.425D | Blister (nonthermal) of left ring finger, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S60.425S | Blister (nonthermal) of left ring finger, sequela                  | Diagnosis     | ICD-10-CM |
| S60.426  | Blister (nonthermal) of right little finger                        | Diagnosis     | ICD-10-CM |
| S60.426A | Blister (nonthermal) of right little finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S60.426D | Blister (nonthermal) of right little finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S60.426S | Blister (nonthermal) of right little finger, sequela               | Diagnosis     | ICD-10-CM |
| S60.427  | Blister (nonthermal) of left little finger                         | Diagnosis     | ICD-10-CM |
| S60.427A | Blister (nonthermal) of left little finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S60.427D | Blister (nonthermal) of left little finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S60.427S | Blister (nonthermal) of left little finger, sequela                | Diagnosis     | ICD-10-CM |
| S60.428  | Blister (nonthermal) of other finger                               | Diagnosis     | ICD-10-CM |
| S60.428A | Blister (nonthermal) of other finger, initial encounter            | Diagnosis     | ICD-10-CM |
| S60.428D | Blister (nonthermal) of other finger, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S60.428S | Blister (nonthermal) of other finger, sequela                      | Diagnosis     | ICD-10-CM |
| S60.429  | Blister (nonthermal) of unspecified finger                         | Diagnosis     | ICD-10-CM |
| S60.429A | Blister (nonthermal) of unspecified finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S60.429D | Blister (nonthermal) of unspecified finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S60.429S | Blister (nonthermal) of unspecified finger, sequela                | Diagnosis     | ICD-10-CM |
| S60.44   | External constriction of fingers                                   | Diagnosis     | ICD-10-CM |
| S60.440  | External constriction of right index finger                        | Diagnosis     | ICD-10-CM |
| S60.440A | External constriction of right index finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S60.440D | External constriction of right index finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S60.440S | External constriction of right index finger, sequela               | Diagnosis     | ICD-10-CM |
| S60.441  | External constriction of left index finger                         | Diagnosis     | ICD-10-CM |
| S60.441A | External constriction of left index finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S60.441D | External constriction of left index finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S60.441S | External constriction of left index finger, sequela                | Diagnosis     | ICD-10-CM |
| S60.442  | External constriction of right middle finger                       | Diagnosis     | ICD-10-CM |
| S60.442A | External constriction of right middle finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S60.442D | External constriction of right middle finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S60.442S | External constriction of right middle finger, sequela              | Diagnosis     | ICD-10-CM |
| S60.443  | External constriction of left middle finger                        | Diagnosis     | ICD-10-CM |
| S60.443A | External constriction of left middle finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S60.443D | External constriction of left middle finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S60.443S | External constriction of left middle finger, sequela               | Diagnosis     | ICD-10-CM |
| S60.444  | External constriction of right ring finger                         | Diagnosis     | ICD-10-CM |
| S60.444A | External constriction of right ring finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S60.444D | External constriction of right ring finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S60.444S | External constriction of right ring finger, sequela                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S60.445  | External constriction of left ring finger                             | Diagnosis     | ICD-10-CM |
| S60.445A | External constriction of left ring finger, initial encounter          | Diagnosis     | ICD-10-CM |
| S60.445D | External constriction of left ring finger, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S60.445S | External constriction of left ring finger, sequela                    | Diagnosis     | ICD-10-CM |
| S60.446  | External constriction of right little finger                          | Diagnosis     | ICD-10-CM |
| S60.446A | External constriction of right little finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S60.446D | External constriction of right little finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S60.446S | External constriction of right little finger, sequela                 | Diagnosis     | ICD-10-CM |
| S60.447  | External constriction of left little finger                           | Diagnosis     | ICD-10-CM |
| S60.447A | External constriction of left little finger, initial encounter        | Diagnosis     | ICD-10-CM |
| S60.447D | External constriction of left little finger, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S60.447S | External constriction of left little finger, sequela                  | Diagnosis     | ICD-10-CM |
| S60.448  | External constriction of other finger                                 | Diagnosis     | ICD-10-CM |
| S60.448A | External constriction of other finger, initial encounter              | Diagnosis     | ICD-10-CM |
| S60.448D | External constriction of other finger, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S60.448S | External constriction of other finger, sequela                        | Diagnosis     | ICD-10-CM |
| S60.449  | External constriction of unspecified finger                           | Diagnosis     | ICD-10-CM |
| S60.449A | External constriction of unspecified finger, initial encounter        | Diagnosis     | ICD-10-CM |
| S60.449D | External constriction of unspecified finger, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S60.449S | External constriction of unspecified finger, sequela                  | Diagnosis     | ICD-10-CM |
| S60.45   | Superficial foreign body of fingers                                   | Diagnosis     | ICD-10-CM |
| S60.450  | Superficial foreign body of right index finger                        | Diagnosis     | ICD-10-CM |
| S60.450A | Superficial foreign body of right index finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S60.450D | Superficial foreign body of right index finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S60.450S | Superficial foreign body of right index finger, sequela               | Diagnosis     | ICD-10-CM |
| S60.451  | Superficial foreign body of left index finger                         | Diagnosis     | ICD-10-CM |
| S60.451A | Superficial foreign body of left index finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S60.451D | Superficial foreign body of left index finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S60.451S | Superficial foreign body of left index finger, sequela                | Diagnosis     | ICD-10-CM |
| S60.452  | Superficial foreign body of right middle finger                       | Diagnosis     | ICD-10-CM |
| S60.452A | Superficial foreign body of right middle finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S60.452D | Superficial foreign body of right middle finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S60.452S | Superficial foreign body of right middle finger, sequela              | Diagnosis     | ICD-10-CM |
| S60.453  | Superficial foreign body of left middle finger                        | Diagnosis     | ICD-10-CM |
| S60.453A | Superficial foreign body of left middle finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S60.453D | Superficial foreign body of left middle finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S60.453S | Superficial foreign body of left middle finger, sequela               | Diagnosis     | ICD-10-CM |
| S60.454  | Superficial foreign body of right ring finger                         | Diagnosis     | ICD-10-CM |
| S60.454A | Superficial foreign body of right ring finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S60.454D | Superficial foreign body of right ring finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S60.454S | Superficial foreign body of right ring finger, sequela                | Diagnosis     | ICD-10-CM |
| S60.455  | Superficial foreign body of left ring finger                          | Diagnosis     | ICD-10-CM |
| S60.455A | Superficial foreign body of left ring finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S60.455D | Superficial foreign body of left ring finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S60.455S | Superficial foreign body of left ring finger, sequela                 | Diagnosis     | ICD-10-CM |
| S60.456  | Superficial foreign body of right little finger                       | Diagnosis     | ICD-10-CM |
| S60.456A | Superficial foreign body of right little finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S60.456D | Superficial foreign body of right little finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S60.456S | Superficial foreign body of right little finger, sequela              | Diagnosis     | ICD-10-CM |
| S60.457  | Superficial foreign body of left little finger                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S60.457A | Superficial foreign body of left little finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S60.457D | Superficial foreign body of left little finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S60.457S | Superficial foreign body of left little finger, sequela                | Diagnosis     | ICD-10-CM |
| S60.458  | Superficial foreign body of other finger                               | Diagnosis     | ICD-10-CM |
| S60.458A | Superficial foreign body of other finger, initial encounter            | Diagnosis     | ICD-10-CM |
| S60.458D | Superficial foreign body of other finger, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S60.458S | Superficial foreign body of other finger, sequela                      | Diagnosis     | ICD-10-CM |
| S60.459  | Superficial foreign body of unspecified finger                         | Diagnosis     | ICD-10-CM |
| S60.459A | Superficial foreign body of unspecified finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S60.459D | Superficial foreign body of unspecified finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S60.459S | Superficial foreign body of unspecified finger, sequela                | Diagnosis     | ICD-10-CM |
| S60.46   | Insect bite (nonvenomous) of fingers                                   | Diagnosis     | ICD-10-CM |
| S60.460  | Insect bite (nonvenomous) of right index finger                        | Diagnosis     | ICD-10-CM |
| S60.460A | Insect bite (nonvenomous) of right index finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S60.460D | Insect bite (nonvenomous) of right index finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S60.460S | Insect bite (nonvenomous) of right index finger, sequela               | Diagnosis     | ICD-10-CM |
| S60.461  | Insect bite (nonvenomous) of left index finger                         | Diagnosis     | ICD-10-CM |
| S60.461A | Insect bite (nonvenomous) of left index finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S60.461D | Insect bite (nonvenomous) of left index finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S60.461S | Insect bite (nonvenomous) of left index finger, sequela                | Diagnosis     | ICD-10-CM |
| S60.462  | Insect bite (nonvenomous) of right middle finger                       | Diagnosis     | ICD-10-CM |
| S60.462A | Insect bite (nonvenomous) of right middle finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S60.462D | Insect bite (nonvenomous) of right middle finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S60.462S | Insect bite (nonvenomous) of right middle finger, sequela              | Diagnosis     | ICD-10-CM |
| S60.463  | Insect bite (nonvenomous) of left middle finger                        | Diagnosis     | ICD-10-CM |
| S60.463A | Insect bite (nonvenomous) of left middle finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S60.463D | Insect bite (nonvenomous) of left middle finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S60.463S | Insect bite (nonvenomous) of left middle finger, sequela               | Diagnosis     | ICD-10-CM |
| S60.464  | Insect bite (nonvenomous) of right ring finger                         | Diagnosis     | ICD-10-CM |
| S60.464A | Insect bite (nonvenomous) of right ring finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S60.464D | Insect bite (nonvenomous) of right ring finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S60.464S | Insect bite (nonvenomous) of right ring finger, sequela                | Diagnosis     | ICD-10-CM |
| S60.465  | Insect bite (nonvenomous) of left ring finger                          | Diagnosis     | ICD-10-CM |
| S60.465A | Insect bite (nonvenomous) of left ring finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S60.465D | Insect bite (nonvenomous) of left ring finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S60.465S | Insect bite (nonvenomous) of left ring finger, sequela                 | Diagnosis     | ICD-10-CM |
| S60.466  | Insect bite (nonvenomous) of right little finger                       | Diagnosis     | ICD-10-CM |
| S60.466A | Insect bite (nonvenomous) of right little finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S60.466D | Insect bite (nonvenomous) of right little finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S60.466S | Insect bite (nonvenomous) of right little finger, sequela              | Diagnosis     | ICD-10-CM |
| S60.467  | Insect bite (nonvenomous) of left little finger                        | Diagnosis     | ICD-10-CM |
| S60.467A | Insect bite (nonvenomous) of left little finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S60.467D | Insect bite (nonvenomous) of left little finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S60.467S | Insect bite (nonvenomous) of left little finger, sequela               | Diagnosis     | ICD-10-CM |
| S60.468  | Insect bite (nonvenomous) of other finger                              | Diagnosis     | ICD-10-CM |
| S60.468A | Insect bite (nonvenomous) of other finger, initial encounter           | Diagnosis     | ICD-10-CM |
| S60.468D | Insect bite (nonvenomous) of other finger, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S60.468S | Insect bite (nonvenomous) of other finger, sequela                     | Diagnosis     | ICD-10-CM |
| S60.469  | Insect bite (nonvenomous) of unspecified finger                        | Diagnosis     | ICD-10-CM |
| S60.469A | Insect bite (nonvenomous) of unspecified finger, initial encounter     | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S60.469D | Insect bite (nonvenomous) of unspecified finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S60.469S | Insect bite (nonvenomous) of unspecified finger, sequela              | Diagnosis     | ICD-10-CM |
| S60.47   | Other superficial bite of fingers                                     | Diagnosis     | ICD-10-CM |
| S60.470  | Other superficial bite of right index finger                          | Diagnosis     | ICD-10-CM |
| S60.470A | Other superficial bite of right index finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S60.470D | Other superficial bite of right index finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S60.470S | Other superficial bite of right index finger, sequela                 | Diagnosis     | ICD-10-CM |
| S60.471  | Other superficial bite of left index finger                           | Diagnosis     | ICD-10-CM |
| S60.471A | Other superficial bite of left index finger, initial encounter        | Diagnosis     | ICD-10-CM |
| S60.471D | Other superficial bite of left index finger, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S60.471S | Other superficial bite of left index finger, sequela                  | Diagnosis     | ICD-10-CM |
| S60.472  | Other superficial bite of right middle finger                         | Diagnosis     | ICD-10-CM |
| S60.472A | Other superficial bite of right middle finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S60.472D | Other superficial bite of right middle finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S60.472S | Other superficial bite of right middle finger, sequela                | Diagnosis     | ICD-10-CM |
| S60.473  | Other superficial bite of left middle finger                          | Diagnosis     | ICD-10-CM |
| S60.473A | Other superficial bite of left middle finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S60.473D | Other superficial bite of left middle finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S60.473S | Other superficial bite of left middle finger, sequela                 | Diagnosis     | ICD-10-CM |
| S60.474  | Other superficial bite of right ring finger                           | Diagnosis     | ICD-10-CM |
| S60.474A | Other superficial bite of right ring finger, initial encounter        | Diagnosis     | ICD-10-CM |
| S60.474D | Other superficial bite of right ring finger, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S60.474S | Other superficial bite of right ring finger, sequela                  | Diagnosis     | ICD-10-CM |
| S60.475  | Other superficial bite of left ring finger                            | Diagnosis     | ICD-10-CM |
| S60.475A | Other superficial bite of left ring finger, initial encounter         | Diagnosis     | ICD-10-CM |
| S60.475D | Other superficial bite of left ring finger, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S60.475S | Other superficial bite of left ring finger, sequela                   | Diagnosis     | ICD-10-CM |
| S60.476  | Other superficial bite of right little finger                         | Diagnosis     | ICD-10-CM |
| S60.476A | Other superficial bite of right little finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S60.476D | Other superficial bite of right little finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S60.476S | Other superficial bite of right little finger, sequela                | Diagnosis     | ICD-10-CM |
| S60.477  | Other superficial bite of left little finger                          | Diagnosis     | ICD-10-CM |
| S60.477A | Other superficial bite of left little finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S60.477D | Other superficial bite of left little finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S60.477S | Other superficial bite of left little finger, sequela                 | Diagnosis     | ICD-10-CM |
| S60.478  | Other superficial bite of other finger                                | Diagnosis     | ICD-10-CM |
| S60.478A | Other superficial bite of other finger, initial encounter             | Diagnosis     | ICD-10-CM |
| S60.478D | Other superficial bite of other finger, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S60.478S | Other superficial bite of other finger, sequela                       | Diagnosis     | ICD-10-CM |
| S60.479  | Other superficial bite of unspecified finger                          | Diagnosis     | ICD-10-CM |
| S60.479A | Other superficial bite of unspecified finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S60.479D | Other superficial bite of unspecified finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S60.479S | Other superficial bite of unspecified finger, sequela                 | Diagnosis     | ICD-10-CM |
| S60.5    | Other superficial injuries of hand                                    | Diagnosis     | ICD-10-CM |
| S60.51   | Abrasion of hand  | Diagnosis     | ICD-10-CM |
| S60.511  | Abrasion of right hand  | Diagnosis     | ICD-10-CM |
| S60.511A | Abrasion of right hand, initial encounter                             | Diagnosis     | ICD-10-CM |
| S60.511D | Abrasion of right hand, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S60.511S | Abrasion of right hand, sequela                                       | Diagnosis     | ICD-10-CM |
| S60.512  | Abrasion of left hand   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S60.512A | Abrasion of left hand, initial encounter                           | Diagnosis     | ICD-10-CM |
| S60.512D | Abrasion of left hand, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S60.512S | Abrasion of left hand, sequela                                     | Diagnosis     | ICD-10-CM |
| S60.519  | Abrasion of unspecified hand                                       | Diagnosis     | ICD-10-CM |
| S60.519A | Abrasion of unspecified hand, initial encounter                    | Diagnosis     | ICD-10-CM |
| S60.519D | Abrasion of unspecified hand, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S60.519S | Abrasion of unspecified hand, sequela                              | Diagnosis     | ICD-10-CM |
| S60.52   | Blister (nonthermal) of hand                                       | Diagnosis     | ICD-10-CM |
| S60.521  | Blister (nonthermal) of right hand                                 | Diagnosis     | ICD-10-CM |
| S60.521A | Blister (nonthermal) of right hand, initial encounter              | Diagnosis     | ICD-10-CM |
| S60.521D | Blister (nonthermal) of right hand, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S60.521S | Blister (nonthermal) of right hand, sequela                        | Diagnosis     | ICD-10-CM |
| S60.522  | Blister (nonthermal) of left hand                                  | Diagnosis     | ICD-10-CM |
| S60.522A | Blister (nonthermal) of left hand, initial encounter               | Diagnosis     | ICD-10-CM |
| S60.522D | Blister (nonthermal) of left hand, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S60.522S | Blister (nonthermal) of left hand, sequela                         | Diagnosis     | ICD-10-CM |
| S60.529  | Blister (nonthermal) of unspecified hand                           | Diagnosis     | ICD-10-CM |
| S60.529A | Blister (nonthermal) of unspecified hand, initial encounter        | Diagnosis     | ICD-10-CM |
| S60.529D | Blister (nonthermal) of unspecified hand, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S60.529S | Blister (nonthermal) of unspecified hand, sequela                  | Diagnosis     | ICD-10-CM |
| S60.54   | External constriction of hand                                      | Diagnosis     | ICD-10-CM |
| S60.541  | External constriction of right hand                                | Diagnosis     | ICD-10-CM |
| S60.541A | External constriction of right hand, initial encounter             | Diagnosis     | ICD-10-CM |
| S60.541D | External constriction of right hand, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S60.541S | External constriction of right hand, sequela                       | Diagnosis     | ICD-10-CM |
| S60.542  | External constriction of left hand                                 | Diagnosis     | ICD-10-CM |
| S60.542A | External constriction of left hand, initial encounter              | Diagnosis     | ICD-10-CM |
| S60.542D | External constriction of left hand, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S60.542S | External constriction of left hand, sequela                        | Diagnosis     | ICD-10-CM |
| S60.549  | External constriction of unspecified hand                          | Diagnosis     | ICD-10-CM |
| S60.549A | External constriction of unspecified hand, initial encounter       | Diagnosis     | ICD-10-CM |
| S60.549D | External constriction of unspecified hand, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S60.549S | External constriction of unspecified hand, sequela                 | Diagnosis     | ICD-10-CM |
| S60.55   | Superficial foreign body of hand                                   | Diagnosis     | ICD-10-CM |
| S60.551  | Superficial foreign body of right hand                             | Diagnosis     | ICD-10-CM |
| S60.551A | Superficial foreign body of right hand, initial encounter          | Diagnosis     | ICD-10-CM |
| S60.551D | Superficial foreign body of right hand, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S60.551S | Superficial foreign body of right hand, sequela                    | Diagnosis     | ICD-10-CM |
| S60.552  | Superficial foreign body of left hand                              | Diagnosis     | ICD-10-CM |
| S60.552A | Superficial foreign body of left hand, initial encounter           | Diagnosis     | ICD-10-CM |
| S60.552D | Superficial foreign body of left hand, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S60.552S | Superficial foreign body of left hand, sequela                     | Diagnosis     | ICD-10-CM |
| S60.559  | Superficial foreign body of unspecified hand                       | Diagnosis     | ICD-10-CM |
| S60.559A | Superficial foreign body of unspecified hand, initial encounter    | Diagnosis     | ICD-10-CM |
| S60.559D | Superficial foreign body of unspecified hand, subsequent encounter | Diagnosis     | ICD-10-CM |
| S60.559S | Superficial foreign body of unspecified hand, sequela              | Diagnosis     | ICD-10-CM |
| S60.56   | Insect bite (nonvenomous) of hand                                  | Diagnosis     | ICD-10-CM |
| S60.561  | Insect bite (nonvenomous) of right hand                            | Diagnosis     | ICD-10-CM |
| S60.561A | Insect bite (nonvenomous) of right hand, initial encounter         | Diagnosis     | ICD-10-CM |
| S60.561D | Insect bite (nonvenomous) of right hand, subsequent encounter      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S60.561S | Insect bite (nonvenomous) of right hand, sequela                         | Diagnosis     | ICD-10-CM |
| S60.562  | Insect bite (nonvenomous) of left hand                                   | Diagnosis     | ICD-10-CM |
| S60.562A | Insect bite (nonvenomous) of left hand, initial encounter                | Diagnosis     | ICD-10-CM |
| S60.562D | Insect bite (nonvenomous) of left hand, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S60.562S | Insect bite (nonvenomous) of left hand, sequela                          | Diagnosis     | ICD-10-CM |
| S60.569  | Insect bite (nonvenomous) of unspecified hand                            | Diagnosis     | ICD-10-CM |
| S60.569A | Insect bite (nonvenomous) of unspecified hand, initial encounter         | Diagnosis     | ICD-10-CM |
| S60.569D | Insect bite (nonvenomous) of unspecified hand, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S60.569S | Insect bite (nonvenomous) of unspecified hand, sequela                   | Diagnosis     | ICD-10-CM |
| S60.57   | Other superficial bite of hand   | Diagnosis     | ICD-10-CM |
| S60.571  | Other superficial bite of hand of right hand                             | Diagnosis     | ICD-10-CM |
| S60.571A | Other superficial bite of hand of right hand, initial encounter          | Diagnosis     | ICD-10-CM |
| S60.571D | Other superficial bite of hand of right hand, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S60.571S | Other superficial bite of hand of right hand, sequela                    | Diagnosis     | ICD-10-CM |
| S60.572  | Other superficial bite of hand of left hand                              | Diagnosis     | ICD-10-CM |
| S60.572A | Other superficial bite of hand of left hand, initial encounter           | Diagnosis     | ICD-10-CM |
| S60.572D | Other superficial bite of hand of left hand, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S60.572S | Other superficial bite of hand of left hand, sequela                     | Diagnosis     | ICD-10-CM |
| S60.579  | Other superficial bite of hand of unspecified hand                       | Diagnosis     | ICD-10-CM |
| S60.579A | Other superficial bite of hand of unspecified hand, initial encounter    | Diagnosis     | ICD-10-CM |
| S60.579D | Other superficial bite of hand of unspecified hand, subsequent encounter | Diagnosis     | ICD-10-CM |
| S60.579S | Other superficial bite of hand of unspecified hand, sequela              | Diagnosis     | ICD-10-CM |
| S60.8    | Other superficial injuries of wrist                                      | Diagnosis     | ICD-10-CM |
| S60.81   | Abrasion of wrist  | Diagnosis     | ICD-10-CM |
| S60.811  | Abrasion of right wrist  | Diagnosis     | ICD-10-CM |
| S60.811A | Abrasion of right wrist, initial encounter                               | Diagnosis     | ICD-10-CM |
| S60.811D | Abrasion of right wrist, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S60.811S | Abrasion of right wrist, sequela   | Diagnosis     | ICD-10-CM |
| S60.812  | Abrasion of left wrist   | Diagnosis     | ICD-10-CM |
| S60.812A | Abrasion of left wrist, initial encounter                                | Diagnosis     | ICD-10-CM |
| S60.812D | Abrasion of left wrist, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S60.812S | Abrasion of left wrist, sequela  | Diagnosis     | ICD-10-CM |
| S60.819  | Abrasion of unspecified wrist  | Diagnosis     | ICD-10-CM |
| S60.819A | Abrasion of unspecified wrist, initial encounter                         | Diagnosis     | ICD-10-CM |
| S60.819D | Abrasion of unspecified wrist, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S60.819S | Abrasion of unspecified wrist, sequela                                   | Diagnosis     | ICD-10-CM |
| S60.82   | Blister (nonthermal) of wrist  | Diagnosis     | ICD-10-CM |
| S60.821  | Blister (nonthermal) of right wrist                                      | Diagnosis     | ICD-10-CM |
| S60.821A | Blister (nonthermal) of right wrist, initial encounter                   | Diagnosis     | ICD-10-CM |
| S60.821D | Blister (nonthermal) of right wrist, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S60.821S | Blister (nonthermal) of right wrist, sequela                             | Diagnosis     | ICD-10-CM |
| S60.822  | Blister (nonthermal) of left wrist                                       | Diagnosis     | ICD-10-CM |
| S60.822A | Blister (nonthermal) of left wrist, initial encounter                    | Diagnosis     | ICD-10-CM |
| S60.822D | Blister (nonthermal) of left wrist, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S60.822S | Blister (nonthermal) of left wrist, sequela                              | Diagnosis     | ICD-10-CM |
| S60.829  | Blister (nonthermal) of unspecified wrist                                | Diagnosis     | ICD-10-CM |
| S60.829A | Blister (nonthermal) of unspecified wrist, initial encounter             | Diagnosis     | ICD-10-CM |
| S60.829D | Blister (nonthermal) of unspecified wrist, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S60.829S | Blister (nonthermal) of unspecified wrist, sequela                       | Diagnosis     | ICD-10-CM |
| S60.84   | External constriction of wrist   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S60.841  | External constriction of right wrist                                 | Diagnosis     | ICD-10-CM |
| S60.841A | External constriction of right wrist, initial encounter              | Diagnosis     | ICD-10-CM |
| S60.841D | External constriction of right wrist, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S60.841S | External constriction of right wrist, sequela                        | Diagnosis     | ICD-10-CM |
| S60.842  | External constriction of left wrist                                  | Diagnosis     | ICD-10-CM |
| S60.842A | External constriction of left wrist, initial encounter               | Diagnosis     | ICD-10-CM |
| S60.842D | External constriction of left wrist, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S60.842S | External constriction of left wrist, sequela                         | Diagnosis     | ICD-10-CM |
| S60.849  | External constriction of unspecified wrist                           | Diagnosis     | ICD-10-CM |
| S60.849A | External constriction of unspecified wrist, initial encounter        | Diagnosis     | ICD-10-CM |
| S60.849D | External constriction of unspecified wrist, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S60.849S | External constriction of unspecified wrist, sequela                  | Diagnosis     | ICD-10-CM |
| S60.85   | Superficial foreign body of wrist                                    | Diagnosis     | ICD-10-CM |
| S60.851  | Superficial foreign body of right wrist                              | Diagnosis     | ICD-10-CM |
| S60.851A | Superficial foreign body of right wrist, initial encounter           | Diagnosis     | ICD-10-CM |
| S60.851D | Superficial foreign body of right wrist, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S60.851S | Superficial foreign body of right wrist, sequela                     | Diagnosis     | ICD-10-CM |
| S60.852  | Superficial foreign body of left wrist                               | Diagnosis     | ICD-10-CM |
| S60.852A | Superficial foreign body of left wrist, initial encounter            | Diagnosis     | ICD-10-CM |
| S60.852D | Superficial foreign body of left wrist, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S60.852S | Superficial foreign body of left wrist, sequela                      | Diagnosis     | ICD-10-CM |
| S60.859  | Superficial foreign body of unspecified wrist                        | Diagnosis     | ICD-10-CM |
| S60.859A | Superficial foreign body of unspecified wrist, initial encounter     | Diagnosis     | ICD-10-CM |
| S60.859D | Superficial foreign body of unspecified wrist, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S60.859S | Superficial foreign body of unspecified wrist, sequela               | Diagnosis     | ICD-10-CM |
| S60.86   | Insect bite (nonvenomous) of wrist                                   | Diagnosis     | ICD-10-CM |
| S60.861  | Insect bite (nonvenomous) of right wrist                             | Diagnosis     | ICD-10-CM |
| S60.861A | Insect bite (nonvenomous) of right wrist, initial encounter          | Diagnosis     | ICD-10-CM |
| S60.861D | Insect bite (nonvenomous) of right wrist, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S60.861S | Insect bite (nonvenomous) of right wrist, sequela                    | Diagnosis     | ICD-10-CM |
| S60.862  | Insect bite (nonvenomous) of left wrist                              | Diagnosis     | ICD-10-CM |
| S60.862A | Insect bite (nonvenomous) of left wrist, initial encounter           | Diagnosis     | ICD-10-CM |
| S60.862D | Insect bite (nonvenomous) of left wrist, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S60.862S | Insect bite (nonvenomous) of left wrist, sequela                     | Diagnosis     | ICD-10-CM |
| S60.869  | Insect bite (nonvenomous) of unspecified wrist                       | Diagnosis     | ICD-10-CM |
| S60.869A | Insect bite (nonvenomous) of unspecified wrist, initial encounter    | Diagnosis     | ICD-10-CM |
| S60.869D | Insect bite (nonvenomous) of unspecified wrist, subsequent encounter | Diagnosis     | ICD-10-CM |
| S60.869S | Insect bite (nonvenomous) of unspecified wrist, sequela              | Diagnosis     | ICD-10-CM |
| S60.87   | Other superficial bite of wrist                                      | Diagnosis     | ICD-10-CM |
| S60.871  | Other superficial bite of right wrist                                | Diagnosis     | ICD-10-CM |
| S60.871A | Other superficial bite of right wrist, initial encounter             | Diagnosis     | ICD-10-CM |
| S60.871D | Other superficial bite of right wrist, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S60.871S | Other superficial bite of right wrist, sequela                       | Diagnosis     | ICD-10-CM |
| S60.872  | Other superficial bite of left wrist                                 | Diagnosis     | ICD-10-CM |
| S60.872A | Other superficial bite of left wrist, initial encounter              | Diagnosis     | ICD-10-CM |
| S60.872D | Other superficial bite of left wrist, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S60.872S | Other superficial bite of left wrist, sequela                        | Diagnosis     | ICD-10-CM |
| S60.879  | Other superficial bite of unspecified wrist                          | Diagnosis     | ICD-10-CM |
| S60.879A | Other superficial bite of unspecified wrist, initial encounter       | Diagnosis     | ICD-10-CM |
| S60.879D | Other superficial bite of unspecified wrist, subsequent encounter    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S60.879S | Other superficial bite of unspecified wrist, sequela                       | Diagnosis     | ICD-10-CM |
| S60.9    | Unspecified superficial injury of wrist, hand and fingers                  | Diagnosis     | ICD-10-CM |
| S60.91   | Unspecified superficial injury of wrist                                    | Diagnosis     | ICD-10-CM |
| S60.911  | Unspecified superficial injury of right wrist                              | Diagnosis     | ICD-10-CM |
| S60.911A | Unspecified superficial injury of right wrist, initial encounter           | Diagnosis     | ICD-10-CM |
| S60.911D | Unspecified superficial injury of right wrist, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S60.911S | Unspecified superficial injury of right wrist, sequela                     | Diagnosis     | ICD-10-CM |
| S60.912  | Unspecified superficial injury of left wrist                               | Diagnosis     | ICD-10-CM |
| S60.912A | Unspecified superficial injury of left wrist, initial encounter            | Diagnosis     | ICD-10-CM |
| S60.912D | Unspecified superficial injury of left wrist, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S60.912S | Unspecified superficial injury of left wrist, sequela                      | Diagnosis     | ICD-10-CM |
| S60.919  | Unspecified superficial injury of unspecified wrist                        | Diagnosis     | ICD-10-CM |
| S60.919A | Unspecified superficial injury of unspecified wrist, initial encounter     | Diagnosis     | ICD-10-CM |
| S60.919D | Unspecified superficial injury of unspecified wrist, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S60.919S | Unspecified superficial injury of unspecified wrist, sequela               | Diagnosis     | ICD-10-CM |
| S60.92   | Unspecified superficial injury of hand                                     | Diagnosis     | ICD-10-CM |
| S60.921  | Unspecified superficial injury of right hand                               | Diagnosis     | ICD-10-CM |
| S60.921A | Unspecified superficial injury of right hand, initial encounter            | Diagnosis     | ICD-10-CM |
| S60.921D | Unspecified superficial injury of right hand, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S60.921S | Unspecified superficial injury of right hand, sequela                      | Diagnosis     | ICD-10-CM |
| S60.922  | Unspecified superficial injury of left hand                                | Diagnosis     | ICD-10-CM |
| S60.922A | Unspecified superficial injury of left hand, initial encounter             | Diagnosis     | ICD-10-CM |
| S60.922D | Unspecified superficial injury of left hand, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S60.922S | Unspecified superficial injury of left hand, sequela                       | Diagnosis     | ICD-10-CM |
| S60.929  | Unspecified superficial injury of unspecified hand                         | Diagnosis     | ICD-10-CM |
| S60.929A | Unspecified superficial injury of unspecified hand, initial encounter      | Diagnosis     | ICD-10-CM |
| S60.929D | Unspecified superficial injury of unspecified hand, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S60.929S | Unspecified superficial injury of unspecified hand, sequela                | Diagnosis     | ICD-10-CM |
| S60.93   | Unspecified superficial injury of thumb                                    | Diagnosis     | ICD-10-CM |
| S60.931  | Unspecified superficial injury of right thumb                              | Diagnosis     | ICD-10-CM |
| S60.931A | Unspecified superficial injury of right thumb, initial encounter           | Diagnosis     | ICD-10-CM |
| S60.931D | Unspecified superficial injury of right thumb, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S60.931S | Unspecified superficial injury of right thumb, sequela                     | Diagnosis     | ICD-10-CM |
| S60.932  | Unspecified superficial injury of left thumb                               | Diagnosis     | ICD-10-CM |
| S60.932A | Unspecified superficial injury of left thumb, initial encounter            | Diagnosis     | ICD-10-CM |
| S60.932D | Unspecified superficial injury of left thumb, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S60.932S | Unspecified superficial injury of left thumb, sequela                      | Diagnosis     | ICD-10-CM |
| S60.939  | Unspecified superficial injury of unspecified thumb                        | Diagnosis     | ICD-10-CM |
| S60.939A | Unspecified superficial injury of unspecified thumb, initial encounter     | Diagnosis     | ICD-10-CM |
| S60.939D | Unspecified superficial injury of unspecified thumb, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S60.939S | Unspecified superficial injury of unspecified thumb, sequela               | Diagnosis     | ICD-10-CM |
| S60.94   | Unspecified superficial injury of other fingers                            | Diagnosis     | ICD-10-CM |
| S60.940  | Unspecified superficial injury of right index finger                       | Diagnosis     | ICD-10-CM |
| S60.940A | Unspecified superficial injury of right index finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S60.940D | Unspecified superficial injury of right index finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S60.940S | Unspecified superficial injury of right index finger, sequela              | Diagnosis     | ICD-10-CM |
| S60.941  | Unspecified superficial injury of left index finger                        | Diagnosis     | ICD-10-CM |
| S60.941A | Unspecified superficial injury of left index finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S60.941D | Unspecified superficial injury of left index finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S60.941S | Unspecified superficial injury of left index finger, sequela               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S60.942  | Unspecified superficial injury of right middle finger                                    | Diagnosis     | ICD-10-CM |
| S60.942A | Unspecified superficial injury of right middle finger, initial encounter                 | Diagnosis     | ICD-10-CM |
| S60.942D | Unspecified superficial injury of right middle finger, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S60.942S | Unspecified superficial injury of right middle finger, sequela                           | Diagnosis     | ICD-10-CM |
| S60.943  | Unspecified superficial injury of left middle finger                                     | Diagnosis     | ICD-10-CM |
| S60.943A | Unspecified superficial injury of left middle finger, initial encounter                  | Diagnosis     | ICD-10-CM |
| S60.943D | Unspecified superficial injury of left middle finger, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S60.943S | Unspecified superficial injury of left middle finger, sequela                            | Diagnosis     | ICD-10-CM |
| S60.944  | Unspecified superficial injury of right ring finger                                      | Diagnosis     | ICD-10-CM |
| S60.944A | Unspecified superficial injury of right ring finger, initial encounter                   | Diagnosis     | ICD-10-CM |
| S60.944D | Unspecified superficial injury of right ring finger, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S60.944S | Unspecified superficial injury of right ring finger, sequela                             | Diagnosis     | ICD-10-CM |
| S60.945  | Unspecified superficial injury of left ring finger                                       | Diagnosis     | ICD-10-CM |
| S60.945A | Unspecified superficial injury of left ring finger, initial encounter                    | Diagnosis     | ICD-10-CM |
| S60.945D | Unspecified superficial injury of left ring finger, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S60.945S | Unspecified superficial injury of left ring finger, sequela                              | Diagnosis     | ICD-10-CM |
| S60.946  | Unspecified superficial injury of right little finger                                    | Diagnosis     | ICD-10-CM |
| S60.946A | Unspecified superficial injury of right little finger, initial encounter                 | Diagnosis     | ICD-10-CM |
| S60.946D | Unspecified superficial injury of right little finger, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S60.946S | Unspecified superficial injury of right little finger, sequela                           | Diagnosis     | ICD-10-CM |
| S60.947  | Unspecified superficial injury of left little finger                                     | Diagnosis     | ICD-10-CM |
| S60.947A | Unspecified superficial injury of left little finger, initial encounter                  | Diagnosis     | ICD-10-CM |
| S60.947D | Unspecified superficial injury of left little finger, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S60.947S | Unspecified superficial injury of left little finger, sequela                            | Diagnosis     | ICD-10-CM |
| S60.948  | Unspecified superficial injury of other finger   | Diagnosis     | ICD-10-CM |
| S60.948A | Unspecified superficial injury of other finger, initial encounter                        | Diagnosis     | ICD-10-CM |
| S60.948D | Unspecified superficial injury of other finger, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S60.948S | Unspecified superficial injury of other finger, sequela                                  | Diagnosis     | ICD-10-CM |
| S60.949  | Unspecified superficial injury of unspecified finger                                     | Diagnosis     | ICD-10-CM |
| S60.949A | Unspecified superficial injury of unspecified finger, initial encounter                  | Diagnosis     | ICD-10-CM |
| S60.949D | Unspecified superficial injury of unspecified finger, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S60.949S | Unspecified superficial injury of unspecified finger, sequela                            | Diagnosis     | ICD-10-CM |
| S61      | Open wound of wrist, hand and fingers  | Diagnosis     | ICD-10-CM |
| S61.0    | Open wound of thumb without damage to nail   | Diagnosis     | ICD-10-CM |
| S61.00   | Unspecified open wound of thumb without damage to nail                                   | Diagnosis     | ICD-10-CM |
| S61.001  | Unspecified open wound of right thumb without damage to nail                             | Diagnosis     | ICD-10-CM |
| S61.001A | Unspecified open wound of right thumb without damage to nail, initial encounter          | Diagnosis     | ICD-10-CM |
| S61.001D | Unspecified open wound of right thumb without damage to nail, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S61.001S | Unspecified open wound of right thumb without damage to nail, sequela                    | Diagnosis     | ICD-10-CM |
| S61.002  | Unspecified open wound of left thumb without damage to nail                              | Diagnosis     | ICD-10-CM |
| S61.002A | Unspecified open wound of left thumb without damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S61.002D | Unspecified open wound of left thumb without damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S61.002S | Unspecified open wound of left thumb without damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S61.009  | Unspecified open wound of unspecified thumb without damage to nail                       | Diagnosis     | ICD-10-CM |
| S61.009A | Unspecified open wound of unspecified thumb without damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S61.009D | Unspecified open wound of unspecified thumb without damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S61.009S | Unspecified open wound of unspecified thumb without damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S61.01   | Laceration without foreign body of thumb without damage to nail                          | Diagnosis     | ICD-10-CM |
| S61.011  | Laceration without foreign body of right thumb without damage to nail                    | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S61.011A | Laceration without foreign body of right thumb without damage to nail, initial encounter              | Diagnosis     | ICD-10-CM |
| S61.011D | Laceration without foreign body of right thumb without damage to nail, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S61.011S | Laceration without foreign body of right thumb without damage to nail, sequela                        | Diagnosis     | ICD-10-CM |
| S61.012  | Laceration without foreign body of left thumb without damage to nail                                  | Diagnosis     | ICD-10-CM |
| S61.012A | Laceration without foreign body of left thumb without damage to nail, initial encounter               | Diagnosis     | ICD-10-CM |
| S61.012D | Laceration without foreign body of left thumb without damage to nail, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S61.012S | Laceration without foreign body of left thumb without damage to nail, sequela                         | Diagnosis     | ICD-10-CM |
| S61.019  | Laceration without foreign body of unspecified thumb without damage to nail                           | Diagnosis     | ICD-10-CM |
| S61.019A | Laceration without foreign body of unspecified thumb without damage to nail, initial encounter        | Diagnosis     | ICD-10-CM |
| S61.019D | Laceration without foreign body of unspecified thumb without damage to nail, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S61.019S | Laceration without foreign body of unspecified thumb without damage to nail, sequela                  | Diagnosis     | ICD-10-CM |
| S61.02   | Laceration with foreign body of thumb without damage to nail  | Diagnosis     | ICD-10-CM |
| S61.021  | Laceration with foreign body of right thumb without damage to nail                                    | Diagnosis     | ICD-10-CM |
| S61.021A | Laceration with foreign body of right thumb without damage to nail, initial encounter                 | Diagnosis     | ICD-10-CM |
| S61.021D | Laceration with foreign body of right thumb without damage to nail, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S61.021S | Laceration with foreign body of right thumb without damage to nail, sequela                           | Diagnosis     | ICD-10-CM |
| S61.022  | Laceration with foreign body of left thumb without damage to nail                                     | Diagnosis     | ICD-10-CM |
| S61.022A | Laceration with foreign body of left thumb without damage to nail, initial encounter                  | Diagnosis     | ICD-10-CM |
| S61.022D | Laceration with foreign body of left thumb without damage to nail, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S61.022S | Laceration with foreign body of left thumb without damage to nail, sequela                            | Diagnosis     | ICD-10-CM |
| S61.029  | Laceration with foreign body of unspecified thumb without damage to nail                              | Diagnosis     | ICD-10-CM |
| S61.029A | Laceration with foreign body of unspecified thumb without damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S61.029D | Laceration with foreign body of unspecified thumb without damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S61.029S | Laceration with foreign body of unspecified thumb without damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S61.03   | Puncture wound without foreign body of thumb without damage to nail                                   | Diagnosis     | ICD-10-CM |
| S61.031  | Puncture wound without foreign body of right thumb without damage to nail                             | Diagnosis     | ICD-10-CM |
| S61.031A | Puncture wound without foreign body of right thumb without damage to nail, initial encounter          | Diagnosis     | ICD-10-CM |
| S61.031D | Puncture wound without foreign body of right thumb without damage to nail, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S61.031S | Puncture wound without foreign body of right thumb without damage to nail, sequela                    | Diagnosis     | ICD-10-CM |
| S61.032  | Puncture wound without foreign body of left thumb without damage to nail                              | Diagnosis     | ICD-10-CM |
| S61.032A | Puncture wound without foreign body of left thumb without damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S61.032D | Puncture wound without foreign body of left thumb without damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S61.032S | Puncture wound without foreign body of left thumb without damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S61.039  | Puncture wound without foreign body of unspecified thumb without damage to nail                       | Diagnosis     | ICD-10-CM |
| S61.039A | Puncture wound without foreign body of unspecified thumb without damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S61.039D | Puncture wound without foreign body of unspecified thumb without damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S61.039S | Puncture wound without foreign body of unspecified thumb without damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S61.04   | Puncture wound with foreign body of thumb without damage to nail                                      | Diagnosis     | ICD-10-CM |
| S61.041  | Puncture wound with foreign body of right thumb without damage to nail                                | Diagnosis     | ICD-10-CM |
| S61.041A | Puncture wound with foreign body of right thumb without damage to nail, initial encounter             | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S61.041D | Puncture wound with foreign body of right thumb without damage to nail, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S61.041S | Puncture wound with foreign body of right thumb without damage to nail, sequela                    | Diagnosis     | ICD-10-CM |
| S61.042  | Puncture wound with foreign body of left thumb without damage to nail                              | Diagnosis     | ICD-10-CM |
| S61.042A | Puncture wound with foreign body of left thumb without damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S61.042D | Puncture wound with foreign body of left thumb without damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S61.042S | Puncture wound with foreign body of left thumb without damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S61.049  | Puncture wound with foreign body of unspecified thumb without damage to nail                       | Diagnosis     | ICD-10-CM |
| S61.049A | Puncture wound with foreign body of unspecified thumb without damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S61.049D | Puncture wound with foreign body of unspecified thumb without damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S61.049S | Puncture wound with foreign body of unspecified thumb without damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S61.05   | Open bite of thumb without damage to nail  | Diagnosis     | ICD-10-CM |
| S61.051  | Open bite of right thumb without damage to nail  | Diagnosis     | ICD-10-CM |
| S61.051A | Open bite of right thumb without damage to nail, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S61.051D | Open bite of right thumb without damage to nail, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S61.051S | Open bite of right thumb without damage to nail, sequela   | Diagnosis     | ICD-10-CM |
| S61.052  | Open bite of left thumb without damage to nail   | Diagnosis     | ICD-10-CM |
| S61.052A | Open bite of left thumb without damage to nail, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S61.052D | Open bite of left thumb without damage to nail, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S61.052S | Open bite of left thumb without damage to nail, sequela  | Diagnosis     | ICD-10-CM |
| S61.059  | Open bite of unspecified thumb without damage to nail  | Diagnosis     | ICD-10-CM |
| S61.059A | Open bite of unspecified thumb without damage to nail, initial encounter                           | Diagnosis     | ICD-10-CM |
| S61.059D | Open bite of unspecified thumb without damage to nail, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S61.059S | Open bite of unspecified thumb without damage to nail, sequela                                     | Diagnosis     | ICD-10-CM |
| S61.1    | Open wound of thumb with damage to nail  | Diagnosis     | ICD-10-CM |
| S61.10   | Unspecified open wound of thumb with damage to nail  | Diagnosis     | ICD-10-CM |
| S61.101  | Unspecified open wound of right thumb with damage to nail  | Diagnosis     | ICD-10-CM |
| S61.101A | Unspecified open wound of right thumb with damage to nail, initial encounter                       | Diagnosis     | ICD-10-CM |
| S61.101D | Unspecified open wound of right thumb with damage to nail, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S61.101S | Unspecified open wound of right thumb with damage to nail, sequela                                 | Diagnosis     | ICD-10-CM |
| S61.102  | Unspecified open wound of left thumb with damage to nail   | Diagnosis     | ICD-10-CM |
| S61.102A | Unspecified open wound of left thumb with damage to nail, initial encounter                        | Diagnosis     | ICD-10-CM |
| S61.102D | Unspecified open wound of left thumb with damage to nail, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S61.102S | Unspecified open wound of left thumb with damage to nail, sequela                                  | Diagnosis     | ICD-10-CM |
| S61.109  | Unspecified open wound of unspecified thumb with damage to nail                                    | Diagnosis     | ICD-10-CM |
| S61.109A | Unspecified open wound of unspecified thumb with damage to nail, initial encounter                 | Diagnosis     | ICD-10-CM |
| S61.109D | Unspecified open wound of unspecified thumb with damage to nail, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S61.109S | Unspecified open wound of unspecified thumb with damage to nail, sequela                           | Diagnosis     | ICD-10-CM |
| S61.11   | Laceration without foreign body of thumb with damage to nail                                       | Diagnosis     | ICD-10-CM |
| S61.111  | Laceration without foreign body of right thumb with damage to nail                                 | Diagnosis     | ICD-10-CM |
| S61.111A | Laceration without foreign body of right thumb with damage to nail, initial encounter              | Diagnosis     | ICD-10-CM |
| S61.111D | Laceration without foreign body of right thumb with damage to nail, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S61.111S | Laceration without foreign body of right thumb with damage to nail, sequela                        | Diagnosis     | ICD-10-CM |
| S61.112  | Laceration without foreign body of left thumb with damage to nail                                  | Diagnosis     | ICD-10-CM |
| S61.112A | Laceration without foreign body of left thumb with damage to nail, initial encounter               | Diagnosis     | ICD-10-CM |
| S61.112D | Laceration without foreign body of left thumb with damage to nail, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S61.112S | Laceration without foreign body of left thumb with damage to nail, sequela                         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S61.119  | Laceration without foreign body of unspecified thumb with damage to nail                           | Diagnosis     | ICD-10-CM |
| S61.119A | Laceration without foreign body of unspecified thumb with damage to nail, initial encounter        | Diagnosis     | ICD-10-CM |
| S61.119D | Laceration without foreign body of unspecified thumb with damage to nail, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S61.119S | Laceration without foreign body of unspecified thumb with damage to nail, sequela                  | Diagnosis     | ICD-10-CM |
| S61.12   | Laceration with foreign body of thumb with damage to nail  | Diagnosis     | ICD-10-CM |
| S61.121  | Laceration with foreign body of right thumb with damage to nail                                    | Diagnosis     | ICD-10-CM |
| S61.121A | Laceration with foreign body of right thumb with damage to nail, initial encounter                 | Diagnosis     | ICD-10-CM |
| S61.121D | Laceration with foreign body of right thumb with damage to nail, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S61.121S | Laceration with foreign body of right thumb with damage to nail, sequela                           | Diagnosis     | ICD-10-CM |
| S61.122  | Laceration with foreign body of left thumb with damage to nail                                     | Diagnosis     | ICD-10-CM |
| S61.122A | Laceration with foreign body of left thumb with damage to nail, initial encounter                  | Diagnosis     | ICD-10-CM |
| S61.122D | Laceration with foreign body of left thumb with damage to nail, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S61.122S | Laceration with foreign body of left thumb with damage to nail, sequela                            | Diagnosis     | ICD-10-CM |
| S61.129  | Laceration with foreign body of unspecified thumb with damage to nail                              | Diagnosis     | ICD-10-CM |
| S61.129A | Laceration with foreign body of unspecified thumb with damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S61.129D | Laceration with foreign body of unspecified thumb with damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S61.129S | Laceration with foreign body of unspecified thumb with damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S61.13   | Puncture wound without foreign body of thumb with damage to nail                                   | Diagnosis     | ICD-10-CM |
| S61.131  | Puncture wound without foreign body of right thumb with damage to nail                             | Diagnosis     | ICD-10-CM |
| S61.131A | Puncture wound without foreign body of right thumb with damage to nail, initial encounter          | Diagnosis     | ICD-10-CM |
| S61.131D | Puncture wound without foreign body of right thumb with damage to nail, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S61.131S | Puncture wound without foreign body of right thumb with damage to nail, sequela                    | Diagnosis     | ICD-10-CM |
| S61.132  | Puncture wound without foreign body of left thumb with damage to nail                              | Diagnosis     | ICD-10-CM |
| S61.132A | Puncture wound without foreign body of left thumb with damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S61.132D | Puncture wound without foreign body of left thumb with damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S61.132S | Puncture wound without foreign body of left thumb with damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S61.139  | Puncture wound without foreign body of unspecified thumb with damage to nail                       | Diagnosis     | ICD-10-CM |
| S61.139A | Puncture wound without foreign body of unspecified thumb with damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S61.139D | Puncture wound without foreign body of unspecified thumb with damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S61.139S | Puncture wound without foreign body of unspecified thumb with damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S61.14   | Puncture wound with foreign body of thumb with damage to nail                                      | Diagnosis     | ICD-10-CM |
| S61.141  | Puncture wound with foreign body of right thumb with damage to nail                                | Diagnosis     | ICD-10-CM |
| S61.141A | Puncture wound with foreign body of right thumb with damage to nail, initial encounter             | Diagnosis     | ICD-10-CM |
| S61.141D | Puncture wound with foreign body of right thumb with damage to nail, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S61.141S | Puncture wound with foreign body of right thumb with damage to nail, sequela                       | Diagnosis     | ICD-10-CM |
| S61.142  | Puncture wound with foreign body of left thumb with damage to nail                                 | Diagnosis     | ICD-10-CM |
| S61.142A | Puncture wound with foreign body of left thumb with damage to nail, initial encounter              | Diagnosis     | ICD-10-CM |
| S61.142D | Puncture wound with foreign body of left thumb with damage to nail, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S61.142S | Puncture wound with foreign body of left thumb with damage to nail, sequela                        | Diagnosis     | ICD-10-CM |
| S61.149  | Puncture wound with foreign body of unspecified thumb with damage to nail                          | Diagnosis     | ICD-10-CM |
| S61.149A | Puncture wound with foreign body of unspecified thumb with damage to nail, initial encounter       | Diagnosis     | ICD-10-CM |
| S61.149D | Puncture wound with foreign body of unspecified thumb with damage to nail, subsequent encounter    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S61.149S | Puncture wound with foreign body of unspecified thumb with damage to nail, sequela         | Diagnosis     | ICD-10-CM |
| S61.15   | Open bite of thumb with damage to nail   | Diagnosis     | ICD-10-CM |
| S61.151  | Open bite of right thumb with damage to nail   | Diagnosis     | ICD-10-CM |
| S61.151A | Open bite of right thumb with damage to nail, initial encounter                            | Diagnosis     | ICD-10-CM |
| S61.151D | Open bite of right thumb with damage to nail, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S61.151S | Open bite of right thumb with damage to nail, sequela                                      | Diagnosis     | ICD-10-CM |
| S61.152  | Open bite of left thumb with damage to nail  | Diagnosis     | ICD-10-CM |
| S61.152A | Open bite of left thumb with damage to nail, initial encounter                             | Diagnosis     | ICD-10-CM |
| S61.152D | Open bite of left thumb with damage to nail, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S61.152S | Open bite of left thumb with damage to nail, sequela                                       | Diagnosis     | ICD-10-CM |
| S61.159  | Open bite of unspecified thumb with damage to nail   | Diagnosis     | ICD-10-CM |
| S61.159A | Open bite of unspecified thumb with damage to nail, initial encounter                      | Diagnosis     | ICD-10-CM |
| S61.159D | Open bite of unspecified thumb with damage to nail, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S61.159S | Open bite of unspecified thumb with damage to nail, sequela                                | Diagnosis     | ICD-10-CM |
| S61.2    | Open wound of other finger without damage to nail  | Diagnosis     | ICD-10-CM |
| S61.20   | Unspecified open wound of other finger without damage to nail                              | Diagnosis     | ICD-10-CM |
| S61.200  | Unspecified open wound of right index finger without damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.200A | Unspecified open wound of right index finger without damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.200D | Unspecified open wound of right index finger without damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.200S | Unspecified open wound of right index finger without damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.201  | Unspecified open wound of left index finger without damage to nail                         | Diagnosis     | ICD-10-CM |
| S61.201A | Unspecified open wound of left index finger without damage to nail, initial encounter      | Diagnosis     | ICD-10-CM |
| S61.201D | Unspecified open wound of left index finger without damage to nail, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S61.201S | Unspecified open wound of left index finger without damage to nail, sequela                | Diagnosis     | ICD-10-CM |
| S61.202  | Unspecified open wound of right middle finger without damage to nail                       | Diagnosis     | ICD-10-CM |
| S61.202A | Unspecified open wound of right middle finger without damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S61.202D | Unspecified open wound of right middle finger without damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S61.202S | Unspecified open wound of right middle finger without damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S61.203  | Unspecified open wound of left middle finger without damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.203A | Unspecified open wound of left middle finger without damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.203D | Unspecified open wound of left middle finger without damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.203S | Unspecified open wound of left middle finger without damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.204  | Unspecified open wound of right ring finger without damage to nail                         | Diagnosis     | ICD-10-CM |
| S61.204A | Unspecified open wound of right ring finger without damage to nail, initial encounter      | Diagnosis     | ICD-10-CM |
| S61.204D | Unspecified open wound of right ring finger without damage to nail, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S61.204S | Unspecified open wound of right ring finger without damage to nail, sequela                | Diagnosis     | ICD-10-CM |
| S61.205  | Unspecified open wound of left ring finger without damage to nail                          | Diagnosis     | ICD-10-CM |
| S61.205A | Unspecified open wound of left ring finger without damage to nail, initial encounter       | Diagnosis     | ICD-10-CM |
| S61.205D | Unspecified open wound of left ring finger without damage to nail, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S61.205S | Unspecified open wound of left ring finger without damage to nail, sequela                 | Diagnosis     | ICD-10-CM |
| S61.206  | Unspecified open wound of right little finger without damage to nail                       | Diagnosis     | ICD-10-CM |
| S61.206A | Unspecified open wound of right little finger without damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S61.206D | Unspecified open wound of right little finger without damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S61.206S | Unspecified open wound of right little finger without damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S61.207  | Unspecified open wound of left little finger without damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.207A | Unspecified open wound of left little finger without damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.207D | Unspecified open wound of left little finger without damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.207S | Unspecified open wound of left little finger without damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.208  | Unspecified open wound of other finger without damage to nail                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S61.208A | Unspecified open wound of other finger without damage to nail, initial encounter                    | Diagnosis     | ICD-10-CM |
| S61.208D | Unspecified open wound of other finger without damage to nail, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S61.208S | Unspecified open wound of other finger without damage to nail, sequela                              | Diagnosis     | ICD-10-CM |
| S61.209  | Unspecified open wound of unspecified finger without damage to nail                                 | Diagnosis     | ICD-10-CM |
| S61.209A | Unspecified open wound of unspecified finger without damage to nail, initial encounter              | Diagnosis     | ICD-10-CM |
| S61.209D | Unspecified open wound of unspecified finger without damage to nail, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S61.209S | Unspecified open wound of unspecified finger without damage to nail, sequela                        | Diagnosis     | ICD-10-CM |
| S61.21   | Laceration without foreign body of finger without damage to nail                                    | Diagnosis     | ICD-10-CM |
| S61.210  | Laceration without foreign body of right index finger without damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.210A | Laceration without foreign body of right index finger without damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.210D | Laceration without foreign body of right index finger without damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.210S | Laceration without foreign body of right index finger without damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.211  | Laceration without foreign body of left index finger without damage to nail                         | Diagnosis     | ICD-10-CM |
| S61.211A | Laceration without foreign body of left index finger without damage to nail, initial encounter      | Diagnosis     | ICD-10-CM |
| S61.211D | Laceration without foreign body of left index finger without damage to nail, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S61.211S | Laceration without foreign body of left index finger without damage to nail, sequela                | Diagnosis     | ICD-10-CM |
| S61.212  | Laceration without foreign body of right middle finger without damage to nail                       | Diagnosis     | ICD-10-CM |
| S61.212A | Laceration without foreign body of right middle finger without damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S61.212D | Laceration without foreign body of right middle finger without damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S61.212S | Laceration without foreign body of right middle finger without damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S61.213  | Laceration without foreign body of left middle finger without damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.213A | Laceration without foreign body of left middle finger without damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.213D | Laceration without foreign body of left middle finger without damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.213S | Laceration without foreign body of left middle finger without damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.214  | Laceration without foreign body of right ring finger without damage to nail                         | Diagnosis     | ICD-10-CM |
| S61.214A | Laceration without foreign body of right ring finger without damage to nail, initial encounter      | Diagnosis     | ICD-10-CM |
| S61.214D | Laceration without foreign body of right ring finger without damage to nail, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S61.214S | Laceration without foreign body of right ring finger without damage to nail, sequela                | Diagnosis     | ICD-10-CM |
| S61.215  | Laceration without foreign body of left ring finger without damage to nail                          | Diagnosis     | ICD-10-CM |
| S61.215A | Laceration without foreign body of left ring finger without damage to nail, initial encounter       | Diagnosis     | ICD-10-CM |
| S61.215D | Laceration without foreign body of left ring finger without damage to nail, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S61.215S | Laceration without foreign body of left ring finger without damage to nail, sequela                 | Diagnosis     | ICD-10-CM |
| S61.216  | Laceration without foreign body of right little finger without damage to nail                       | Diagnosis     | ICD-10-CM |
| S61.216A | Laceration without foreign body of right little finger without damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S61.216D | Laceration without foreign body of right little finger without damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S61.216S | Laceration without foreign body of right little finger without damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S61.217  | Laceration without foreign body of left little finger without damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.217A | Laceration without foreign body of left little finger without damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S61.217D | Laceration without foreign body of left little finger without damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S61.217S | Laceration without foreign body of left little finger without damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S61.218  | Laceration without foreign body of other finger without damage to nail                             | Diagnosis     | ICD-10-CM |
| S61.218A | Laceration without foreign body of other finger without damage to nail, initial encounter          | Diagnosis     | ICD-10-CM |
| S61.218D | Laceration without foreign body of other finger without damage to nail, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S61.218S | Laceration without foreign body of other finger without damage to nail, sequela                    | Diagnosis     | ICD-10-CM |
| S61.219  | Laceration without foreign body of unspecified finger without damage to nail                       | Diagnosis     | ICD-10-CM |
| S61.219A | Laceration without foreign body of unspecified finger without damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S61.219D | Laceration without foreign body of unspecified finger without damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S61.219S | Laceration without foreign body of unspecified finger without damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S61.22   | Laceration with foreign body of finger without damage to nail                                      | Diagnosis     | ICD-10-CM |
| S61.220  | Laceration with foreign body of right index finger without damage to nail                          | Diagnosis     | ICD-10-CM |
| S61.220A | Laceration with foreign body of right index finger without damage to nail, initial encounter       | Diagnosis     | ICD-10-CM |
| S61.220D | Laceration with foreign body of right index finger without damage to nail, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S61.220S | Laceration with foreign body of right index finger without damage to nail, sequela                 | Diagnosis     | ICD-10-CM |
| S61.221  | Laceration with foreign body of left index finger without damage to nail                           | Diagnosis     | ICD-10-CM |
| S61.221A | Laceration with foreign body of left index finger without damage to nail, initial encounter        | Diagnosis     | ICD-10-CM |
| S61.221D | Laceration with foreign body of left index finger without damage to nail, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S61.221S | Laceration with foreign body of left index finger without damage to nail, sequela                  | Diagnosis     | ICD-10-CM |
| S61.222  | Laceration with foreign body of right middle finger without damage to nail                         | Diagnosis     | ICD-10-CM |
| S61.222A | Laceration with foreign body of right middle finger without damage to nail, initial encounter      | Diagnosis     | ICD-10-CM |
| S61.222D | Laceration with foreign body of right middle finger without damage to nail, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S61.222S | Laceration with foreign body of right middle finger without damage to nail, sequela                | Diagnosis     | ICD-10-CM |
| S61.223  | Laceration with foreign body of left middle finger without damage to nail                          | Diagnosis     | ICD-10-CM |
| S61.223A | Laceration with foreign body of left middle finger without damage to nail, initial encounter       | Diagnosis     | ICD-10-CM |
| S61.223D | Laceration with foreign body of left middle finger without damage to nail, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S61.223S | Laceration with foreign body of left middle finger without damage to nail, sequela                 | Diagnosis     | ICD-10-CM |
| S61.224  | Laceration with foreign body of right ring finger without damage to nail                           | Diagnosis     | ICD-10-CM |
| S61.224A | Laceration with foreign body of right ring finger without damage to nail, initial encounter        | Diagnosis     | ICD-10-CM |
| S61.224D | Laceration with foreign body of right ring finger without damage to nail, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S61.224S | Laceration with foreign body of right ring finger without damage to nail, sequela                  | Diagnosis     | ICD-10-CM |
| S61.225  | Laceration with foreign body of left ring finger without damage to nail                            | Diagnosis     | ICD-10-CM |
| S61.225A | Laceration with foreign body of left ring finger without damage to nail, initial encounter         | Diagnosis     | ICD-10-CM |
| S61.225D | Laceration with foreign body of left ring finger without damage to nail, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S61.225S | Laceration with foreign body of left ring finger without damage to nail, sequela                   | Diagnosis     | ICD-10-CM |
| S61.226  | Laceration with foreign body of right little finger without damage to nail                         | Diagnosis     | ICD-10-CM |
| S61.226A | Laceration with foreign body of right little finger without damage to nail, initial encounter      | Diagnosis     | ICD-10-CM |
| S61.226D | Laceration with foreign body of right little finger without damage to nail, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S61.226S | Laceration with foreign body of right little finger without damage to nail, sequela                | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S61.227  | Laceration with foreign body of left little finger without damage to nail                               | Diagnosis     | ICD-10-CM |
| S61.227A | Laceration with foreign body of left little finger without damage to nail, initial encounter            | Diagnosis     | ICD-10-CM |
| S61.227D | Laceration with foreign body of left little finger without damage to nail, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S61.227S | Laceration with foreign body of left little finger without damage to nail, sequela                      | Diagnosis     | ICD-10-CM |
| S61.228  | Laceration with foreign body of other finger without damage to nail                                     | Diagnosis     | ICD-10-CM |
| S61.228A | Laceration with foreign body of other finger without damage to nail, initial encounter                  | Diagnosis     | ICD-10-CM |
| S61.228D | Laceration with foreign body of other finger without damage to nail, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S61.228S | Laceration with foreign body of other finger without damage to nail, sequela                            | Diagnosis     | ICD-10-CM |
| S61.229  | Laceration with foreign body of unspecified finger without damage to nail                               | Diagnosis     | ICD-10-CM |
| S61.229A | Laceration with foreign body of unspecified finger without damage to nail, initial encounter            | Diagnosis     | ICD-10-CM |
| S61.229D | Laceration with foreign body of unspecified finger without damage to nail, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S61.229S | Laceration with foreign body of unspecified finger without damage to nail, sequela                      | Diagnosis     | ICD-10-CM |
| S61.23   | Puncture wound without foreign body of finger without damage to nail                                    | Diagnosis     | ICD-10-CM |
| S61.230  | Puncture wound without foreign body of right index finger without damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.230A | Puncture wound without foreign body of right index finger without damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.230D | Puncture wound without foreign body of right index finger without damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.230S | Puncture wound without foreign body of right index finger without damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.231  | Puncture wound without foreign body of left index finger without damage to nail                         | Diagnosis     | ICD-10-CM |
| S61.231A | Puncture wound without foreign body of left index finger without damage to nail, initial encounter      | Diagnosis     | ICD-10-CM |
| S61.231D | Puncture wound without foreign body of left index finger without damage to nail, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S61.231S | Puncture wound without foreign body of left index finger without damage to nail, sequela                | Diagnosis     | ICD-10-CM |
| S61.232  | Puncture wound without foreign body of right middle finger without damage to nail                       | Diagnosis     | ICD-10-CM |
| S61.232A | Puncture wound without foreign body of right middle finger without damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S61.232D | Puncture wound without foreign body of right middle finger without damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S61.232S | Puncture wound without foreign body of right middle finger without damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S61.233  | Puncture wound without foreign body of left middle finger without damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.233A | Puncture wound without foreign body of left middle finger without damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.233D | Puncture wound without foreign body of left middle finger without damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.233S | Puncture wound without foreign body of left middle finger without damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.234  | Puncture wound without foreign body of right ring finger without damage to nail                         | Diagnosis     | ICD-10-CM |
| S61.234A | Puncture wound without foreign body of right ring finger without damage to nail, initial encounter      | Diagnosis     | ICD-10-CM |
| S61.234D | Puncture wound without foreign body of right ring finger without damage to nail, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S61.234S | Puncture wound without foreign body of right ring finger without damage to nail, sequela                | Diagnosis     | ICD-10-CM |
| S61.235  | Puncture wound without foreign body of left ring finger without damage to nail                          | Diagnosis     | ICD-10-CM |
| S61.235A | Puncture wound without foreign body of left ring finger without damage to nail, initial encounter       | Diagnosis     | ICD-10-CM |
| S61.235D | Puncture wound without foreign body of left ring finger without damage to nail, subsequent encounter    | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S61.235S | Puncture wound without foreign body of left ring finger without damage to nail, sequela                 | Diagnosis     | ICD-10-CM |
| S61.236  | Puncture wound without foreign body of right little finger without damage to nail                       | Diagnosis     | ICD-10-CM |
| S61.236A | Puncture wound without foreign body of right little finger without damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S61.236D | Puncture wound without foreign body of right little finger without damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S61.236S | Puncture wound without foreign body of right little finger without damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S61.237  | Puncture wound without foreign body of left little finger without damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.237A | Puncture wound without foreign body of left little finger without damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.237D | Puncture wound without foreign body of left little finger without damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.237S | Puncture wound without foreign body of left little finger without damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.238  | Puncture wound without foreign body of other finger without damage to nail                              | Diagnosis     | ICD-10-CM |
| S61.238A | Puncture wound without foreign body of other finger without damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S61.238D | Puncture wound without foreign body of other finger without damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S61.238S | Puncture wound without foreign body of other finger without damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S61.239  | Puncture wound without foreign body of unspecified finger without damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.239A | Puncture wound without foreign body of unspecified finger without damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.239D | Puncture wound without foreign body of unspecified finger without damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.239S | Puncture wound without foreign body of unspecified finger without damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.24   | Puncture wound with foreign body of finger without damage to nail                                       | Diagnosis     | ICD-10-CM |
| S61.240  | Puncture wound with foreign body of right index finger without damage to nail                           | Diagnosis     | ICD-10-CM |
| S61.240A | Puncture wound with foreign body of right index finger without damage to nail, initial encounter        | Diagnosis     | ICD-10-CM |
| S61.240D | Puncture wound with foreign body of right index finger without damage to nail, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S61.240S | Puncture wound with foreign body of right index finger without damage to nail, sequela                  | Diagnosis     | ICD-10-CM |
| S61.241  | Puncture wound with foreign body of left index finger without damage to nail                            | Diagnosis     | ICD-10-CM |
| S61.241A | Puncture wound with foreign body of left index finger without damage to nail, initial encounter         | Diagnosis     | ICD-10-CM |
| S61.241D | Puncture wound with foreign body of left index finger without damage to nail, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S61.241S | Puncture wound with foreign body of left index finger without damage to nail, sequela                   | Diagnosis     | ICD-10-CM |
| S61.242  | Puncture wound with foreign body of right middle finger without damage to nail                          | Diagnosis     | ICD-10-CM |
| S61.242A | Puncture wound with foreign body of right middle finger without damage to nail, initial encounter       | Diagnosis     | ICD-10-CM |
| S61.242D | Puncture wound with foreign body of right middle finger without damage to nail, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S61.242S | Puncture wound with foreign body of right middle finger without damage to nail, sequela                 | Diagnosis     | ICD-10-CM |
| S61.243  | Puncture wound with foreign body of left middle finger without damage to nail                           | Diagnosis     | ICD-10-CM |
| S61.243A | Puncture wound with foreign body of left middle finger without damage to nail, initial encounter        | Diagnosis     | ICD-10-CM |
| S61.243D | Puncture wound with foreign body of left middle finger without damage to nail, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S61.243S | Puncture wound with foreign body of left middle finger without damage to nail, sequela                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S61.244  | Puncture wound with foreign body of right ring finger without damage to nail                         | Diagnosis     | ICD-10-CM |
| S61.244A | Puncture wound with foreign body of right ring finger without damage to nail, initial encounter      | Diagnosis     | ICD-10-CM |
| S61.244D | Puncture wound with foreign body of right ring finger without damage to nail, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S61.244S | Puncture wound with foreign body of right ring finger without damage to nail, sequela                | Diagnosis     | ICD-10-CM |
| S61.245  | Puncture wound with foreign body of left ring finger without damage to nail                          | Diagnosis     | ICD-10-CM |
| S61.245A | Puncture wound with foreign body of left ring finger without damage to nail, initial encounter       | Diagnosis     | ICD-10-CM |
| S61.245D | Puncture wound with foreign body of left ring finger without damage to nail, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S61.245S | Puncture wound with foreign body of left ring finger without damage to nail, sequela                 | Diagnosis     | ICD-10-CM |
| S61.246  | Puncture wound with foreign body of right little finger without damage to nail                       | Diagnosis     | ICD-10-CM |
| S61.246A | Puncture wound with foreign body of right little finger without damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S61.246D | Puncture wound with foreign body of right little finger without damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S61.246S | Puncture wound with foreign body of right little finger without damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S61.247  | Puncture wound with foreign body of left little finger without damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.247A | Puncture wound with foreign body of left little finger without damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.247D | Puncture wound with foreign body of left little finger without damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.247S | Puncture wound with foreign body of left little finger without damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.248  | Puncture wound with foreign body of other finger without damage to nail                              | Diagnosis     | ICD-10-CM |
| S61.248A | Puncture wound with foreign body of other finger without damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S61.248D | Puncture wound with foreign body of other finger without damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S61.248S | Puncture wound with foreign body of other finger without damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S61.249  | Puncture wound with foreign body of unspecified finger without damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.249A | Puncture wound with foreign body of unspecified finger without damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.249D | Puncture wound with foreign body of unspecified finger without damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.249S | Puncture wound with foreign body of unspecified finger without damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.25   | Open bite of finger without damage to nail   | Diagnosis     | ICD-10-CM |
| S61.250  | Open bite of right index finger without damage to nail   | Diagnosis     | ICD-10-CM |
| S61.250A | Open bite of right index finger without damage to nail, initial encounter                            | Diagnosis     | ICD-10-CM |
| S61.250D | Open bite of right index finger without damage to nail, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S61.250S | Open bite of right index finger without damage to nail, sequela                                      | Diagnosis     | ICD-10-CM |
| S61.251  | Open bite of left index finger without damage to nail  | Diagnosis     | ICD-10-CM |
| S61.251A | Open bite of left index finger without damage to nail, initial encounter                             | Diagnosis     | ICD-10-CM |
| S61.251D | Open bite of left index finger without damage to nail, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S61.251S | Open bite of left index finger without damage to nail, sequela                                       | Diagnosis     | ICD-10-CM |
| S61.252  | Open bite of right middle finger without damage to nail  | Diagnosis     | ICD-10-CM |
| S61.252A | Open bite of right middle finger without damage to nail, initial encounter                           | Diagnosis     | ICD-10-CM |
| S61.252D | Open bite of right middle finger without damage to nail, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S61.252S | Open bite of right middle finger without damage to nail, sequela                                     | Diagnosis     | ICD-10-CM |
| S61.253  | Open bite of left middle finger without damage to nail   | Diagnosis     | ICD-10-CM |
| S61.253A | Open bite of left middle finger without damage to nail, initial encounter                            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S61.253D | Open bite of left middle finger without damage to nail, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S61.253S | Open bite of left middle finger without damage to nail, sequela                         | Diagnosis     | ICD-10-CM |
| S61.254  | Open bite of right ring finger without damage to nail                                   | Diagnosis     | ICD-10-CM |
| S61.254A | Open bite of right ring finger without damage to nail, initial encounter                | Diagnosis     | ICD-10-CM |
| S61.254D | Open bite of right ring finger without damage to nail, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S61.254S | Open bite of right ring finger without damage to nail, sequela                          | Diagnosis     | ICD-10-CM |
| S61.255  | Open bite of left ring finger without damage to nail                                    | Diagnosis     | ICD-10-CM |
| S61.255A | Open bite of left ring finger without damage to nail, initial encounter                 | Diagnosis     | ICD-10-CM |
| S61.255D | Open bite of left ring finger without damage to nail, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S61.255S | Open bite of left ring finger without damage to nail, sequela                           | Diagnosis     | ICD-10-CM |
| S61.256  | Open bite of right little finger without damage to nail                                 | Diagnosis     | ICD-10-CM |
| S61.256A | Open bite of right little finger without damage to nail, initial encounter              | Diagnosis     | ICD-10-CM |
| S61.256D | Open bite of right little finger without damage to nail, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S61.256S | Open bite of right little finger without damage to nail, sequela                        | Diagnosis     | ICD-10-CM |
| S61.257  | Open bite of left little finger without damage to nail                                  | Diagnosis     | ICD-10-CM |
| S61.257A | Open bite of left little finger without damage to nail, initial encounter               | Diagnosis     | ICD-10-CM |
| S61.257D | Open bite of left little finger without damage to nail, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S61.257S | Open bite of left little finger without damage to nail, sequela                         | Diagnosis     | ICD-10-CM |
| S61.258  | Open bite of other finger without damage to nail  | Diagnosis     | ICD-10-CM |
| S61.258A | Open bite of other finger without damage to nail, initial encounter                     | Diagnosis     | ICD-10-CM |
| S61.258D | Open bite of other finger without damage to nail, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S61.258S | Open bite of other finger without damage to nail, sequela                               | Diagnosis     | ICD-10-CM |
| S61.259  | Open bite of unspecified finger without damage to nail                                  | Diagnosis     | ICD-10-CM |
| S61.259A | Open bite of unspecified finger without damage to nail, initial encounter               | Diagnosis     | ICD-10-CM |
| S61.259D | Open bite of unspecified finger without damage to nail, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S61.259S | Open bite of unspecified finger without damage to nail, sequela                         | Diagnosis     | ICD-10-CM |
| S61.3    | Open wound of other finger with damage to nail  | Diagnosis     | ICD-10-CM |
| S61.30   | Unspecified open wound of finger with damage to nail                                    | Diagnosis     | ICD-10-CM |
| S61.300  | Unspecified open wound of right index finger with damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.300A | Unspecified open wound of right index finger with damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.300D | Unspecified open wound of right index finger with damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.300S | Unspecified open wound of right index finger with damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.301  | Unspecified open wound of left index finger with damage to nail                         | Diagnosis     | ICD-10-CM |
| S61.301A | Unspecified open wound of left index finger with damage to nail, initial encounter      | Diagnosis     | ICD-10-CM |
| S61.301D | Unspecified open wound of left index finger with damage to nail, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S61.301S | Unspecified open wound of left index finger with damage to nail, sequela                | Diagnosis     | ICD-10-CM |
| S61.302  | Unspecified open wound of right middle finger with damage to nail                       | Diagnosis     | ICD-10-CM |
| S61.302A | Unspecified open wound of right middle finger with damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S61.302D | Unspecified open wound of right middle finger with damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S61.302S | Unspecified open wound of right middle finger with damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S61.303  | Unspecified open wound of left middle finger with damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.303A | Unspecified open wound of left middle finger with damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.303D | Unspecified open wound of left middle finger with damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.303S | Unspecified open wound of left middle finger with damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.304  | Unspecified open wound of right ring finger with damage to nail                         | Diagnosis     | ICD-10-CM |
| S61.304A | Unspecified open wound of right ring finger with damage to nail, initial encounter      | Diagnosis     | ICD-10-CM |
| S61.304D | Unspecified open wound of right ring finger with damage to nail, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S61.304S | Unspecified open wound of right ring finger with damage to nail, sequela                | Diagnosis     | ICD-10-CM |
| S61.305  | Unspecified open wound of left ring finger with damage to nail                          | Diagnosis     | ICD-10-CM |
| S61.305A | Unspecified open wound of left ring finger with damage to nail, initial encounter       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S61.305D | Unspecified open wound of left ring finger with damage to nail, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S61.305S | Unspecified open wound of left ring finger with damage to nail, sequela                          | Diagnosis     | ICD-10-CM |
| S61.306  | Unspecified open wound of right little finger with damage to nail                                | Diagnosis     | ICD-10-CM |
| S61.306A | Unspecified open wound of right little finger with damage to nail, initial encounter             | Diagnosis     | ICD-10-CM |
| S61.306D | Unspecified open wound of right little finger with damage to nail, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S61.306S | Unspecified open wound of right little finger with damage to nail, sequela                       | Diagnosis     | ICD-10-CM |
| S61.307  | Unspecified open wound of left little finger with damage to nail                                 | Diagnosis     | ICD-10-CM |
| S61.307A | Unspecified open wound of left little finger with damage to nail, initial encounter              | Diagnosis     | ICD-10-CM |
| S61.307D | Unspecified open wound of left little finger with damage to nail, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S61.307S | Unspecified open wound of left little finger with damage to nail, sequela                        | Diagnosis     | ICD-10-CM |
| S61.308  | Unspecified open wound of other finger with damage to nail                                       | Diagnosis     | ICD-10-CM |
| S61.308A | Unspecified open wound of other finger with damage to nail, initial encounter                    | Diagnosis     | ICD-10-CM |
| S61.308D | Unspecified open wound of other finger with damage to nail, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S61.308S | Unspecified open wound of other finger with damage to nail, sequela                              | Diagnosis     | ICD-10-CM |
| S61.309  | Unspecified open wound of unspecified finger with damage to nail                                 | Diagnosis     | ICD-10-CM |
| S61.309A | Unspecified open wound of unspecified finger with damage to nail, initial encounter              | Diagnosis     | ICD-10-CM |
| S61.309D | Unspecified open wound of unspecified finger with damage to nail, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S61.309S | Unspecified open wound of unspecified finger with damage to nail, sequela                        | Diagnosis     | ICD-10-CM |
| S61.31   | Laceration without foreign body of finger with damage to nail                                    | Diagnosis     | ICD-10-CM |
| S61.310  | Laceration without foreign body of right index finger with damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.310A | Laceration without foreign body of right index finger with damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.310D | Laceration without foreign body of right index finger with damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.310S | Laceration without foreign body of right index finger with damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.311  | Laceration without foreign body of left index finger with damage to nail                         | Diagnosis     | ICD-10-CM |
| S61.311A | Laceration without foreign body of left index finger with damage to nail, initial encounter      | Diagnosis     | ICD-10-CM |
| S61.311D | Laceration without foreign body of left index finger with damage to nail, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S61.311S | Laceration without foreign body of left index finger with damage to nail, sequela                | Diagnosis     | ICD-10-CM |
| S61.312  | Laceration without foreign body of right middle finger with damage to nail                       | Diagnosis     | ICD-10-CM |
| S61.312A | Laceration without foreign body of right middle finger with damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S61.312D | Laceration without foreign body of right middle finger with damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S61.312S | Laceration without foreign body of right middle finger with damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S61.313  | Laceration without foreign body of left middle finger with damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.313A | Laceration without foreign body of left middle finger with damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.313D | Laceration without foreign body of left middle finger with damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.313S | Laceration without foreign body of left middle finger with damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.314  | Laceration without foreign body of right ring finger with damage to nail                         | Diagnosis     | ICD-10-CM |
| S61.314A | Laceration without foreign body of right ring finger with damage to nail, initial encounter      | Diagnosis     | ICD-10-CM |
| S61.314D | Laceration without foreign body of right ring finger with damage to nail, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S61.314S | Laceration without foreign body of right ring finger with damage to nail, sequela                | Diagnosis     | ICD-10-CM |
| S61.315  | Laceration without foreign body of left ring finger with damage to nail                          | Diagnosis     | ICD-10-CM |
| S61.315A | Laceration without foreign body of left ring finger with damage to nail, initial encounter       | Diagnosis     | ICD-10-CM |
| S61.315D | Laceration without foreign body of left ring finger with damage to nail, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S61.315S | Laceration without foreign body of left ring finger with damage to nail, sequela                 | Diagnosis     | ICD-10-CM |
| S61.316  | Laceration without foreign body of right little finger with damage to nail                       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S61.316A | Laceration without foreign body of right little finger with damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S61.316D | Laceration without foreign body of right little finger with damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S61.316S | Laceration without foreign body of right little finger with damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S61.317  | Laceration without foreign body of left little finger with damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.317A | Laceration without foreign body of left little finger with damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.317D | Laceration without foreign body of left little finger with damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.317S | Laceration without foreign body of left little finger with damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.318  | Laceration without foreign body of other finger with damage to nail                              | Diagnosis     | ICD-10-CM |
| S61.318A | Laceration without foreign body of other finger with damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S61.318D | Laceration without foreign body of other finger with damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S61.318S | Laceration without foreign body of other finger with damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S61.319  | Laceration without foreign body of unspecified finger with damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.319A | Laceration without foreign body of unspecified finger with damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.319D | Laceration without foreign body of unspecified finger with damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.319S | Laceration without foreign body of unspecified finger with damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.32   | Laceration with foreign body of finger with damage to nail                                       | Diagnosis     | ICD-10-CM |
| S61.320  | Laceration with foreign body of right index finger with damage to nail                           | Diagnosis     | ICD-10-CM |
| S61.320A | Laceration with foreign body of right index finger with damage to nail, initial encounter        | Diagnosis     | ICD-10-CM |
| S61.320D | Laceration with foreign body of right index finger with damage to nail, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S61.320S | Laceration with foreign body of right index finger with damage to nail, sequela                  | Diagnosis     | ICD-10-CM |
| S61.321  | Laceration with foreign body of left index finger with damage to nail                            | Diagnosis     | ICD-10-CM |
| S61.321A | Laceration with foreign body of left index finger with damage to nail, initial encounter         | Diagnosis     | ICD-10-CM |
| S61.321D | Laceration with foreign body of left index finger with damage to nail, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S61.321S | Laceration with foreign body of left index finger with damage to nail, sequela                   | Diagnosis     | ICD-10-CM |
| S61.322  | Laceration with foreign body of right middle finger with damage to nail                          | Diagnosis     | ICD-10-CM |
| S61.322A | Laceration with foreign body of right middle finger with damage to nail, initial encounter       | Diagnosis     | ICD-10-CM |
| S61.322D | Laceration with foreign body of right middle finger with damage to nail, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S61.322S | Laceration with foreign body of right middle finger with damage to nail, sequela                 | Diagnosis     | ICD-10-CM |
| S61.323  | Laceration with foreign body of left middle finger with damage to nail                           | Diagnosis     | ICD-10-CM |
| S61.323A | Laceration with foreign body of left middle finger with damage to nail, initial encounter        | Diagnosis     | ICD-10-CM |
| S61.323D | Laceration with foreign body of left middle finger with damage to nail, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S61.323S | Laceration with foreign body of left middle finger with damage to nail, sequela                  | Diagnosis     | ICD-10-CM |
| S61.324  | Laceration with foreign body of right ring finger with damage to nail                            | Diagnosis     | ICD-10-CM |
| S61.324A | Laceration with foreign body of right ring finger with damage to nail, initial encounter         | Diagnosis     | ICD-10-CM |
| S61.324D | Laceration with foreign body of right ring finger with damage to nail, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S61.324S | Laceration with foreign body of right ring finger with damage to nail, sequela                   | Diagnosis     | ICD-10-CM |
| S61.325  | Laceration with foreign body of left ring finger with damage to nail                             | Diagnosis     | ICD-10-CM |
| S61.325A | Laceration with foreign body of left ring finger with damage to nail, initial encounter          | Diagnosis     | ICD-10-CM |
| S61.325D | Laceration with foreign body of left ring finger with damage to nail, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S61.325S | Laceration with foreign body of left ring finger with damage to nail, sequela                    | Diagnosis     | ICD-10-CM |
| S61.326  | Laceration with foreign body of right little finger with damage to nail                          | Diagnosis     | ICD-10-CM |
| S61.326A | Laceration with foreign body of right little finger with damage to nail, initial encounter       | Diagnosis     | ICD-10-CM |
| S61.326D | Laceration with foreign body of right little finger with damage to nail, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S61.326S | Laceration with foreign body of right little finger with damage to nail, sequela                 | Diagnosis     | ICD-10-CM |
| S61.327  | Laceration with foreign body of left little finger with damage to nail                           | Diagnosis     | ICD-10-CM |
| S61.327A | Laceration with foreign body of left little finger with damage to nail, initial encounter        | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S61.327D | Laceration with foreign body of left little finger with damage to nail, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S61.327S | Laceration with foreign body of left little finger with damage to nail, sequela                      | Diagnosis     | ICD-10-CM |
| S61.328  | Laceration with foreign body of other finger with damage to nail                                     | Diagnosis     | ICD-10-CM |
| S61.328A | Laceration with foreign body of other finger with damage to nail, initial encounter                  | Diagnosis     | ICD-10-CM |
| S61.328D | Laceration with foreign body of other finger with damage to nail, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S61.328S | Laceration with foreign body of other finger with damage to nail, sequela                            | Diagnosis     | ICD-10-CM |
| S61.329  | Laceration with foreign body of unspecified finger with damage to nail                               | Diagnosis     | ICD-10-CM |
| S61.329A | Laceration with foreign body of unspecified finger with damage to nail, initial encounter            | Diagnosis     | ICD-10-CM |
| S61.329D | Laceration with foreign body of unspecified finger with damage to nail, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S61.329S | Laceration with foreign body of unspecified finger with damage to nail, sequela                      | Diagnosis     | ICD-10-CM |
| S61.33   | Puncture wound without foreign body of finger with damage to nail                                    | Diagnosis     | ICD-10-CM |
| S61.330  | Puncture wound without foreign body of right index finger with damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.330A | Puncture wound without foreign body of right index finger with damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.330D | Puncture wound without foreign body of right index finger with damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.330S | Puncture wound without foreign body of right index finger with damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.331  | Puncture wound without foreign body of left index finger with damage to nail                         | Diagnosis     | ICD-10-CM |
| S61.331A | Puncture wound without foreign body of left index finger with damage to nail, initial encounter      | Diagnosis     | ICD-10-CM |
| S61.331D | Puncture wound without foreign body of left index finger with damage to nail, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S61.331S | Puncture wound without foreign body of left index finger with damage to nail, sequela                | Diagnosis     | ICD-10-CM |
| S61.332  | Puncture wound without foreign body of right middle finger with damage to nail                       | Diagnosis     | ICD-10-CM |
| S61.332A | Puncture wound without foreign body of right middle finger with damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S61.332D | Puncture wound without foreign body of right middle finger with damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S61.332S | Puncture wound without foreign body of right middle finger with damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S61.333  | Puncture wound without foreign body of left middle finger with damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.333A | Puncture wound without foreign body of left middle finger with damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.333D | Puncture wound without foreign body of left middle finger with damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.333S | Puncture wound without foreign body of left middle finger with damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.334  | Puncture wound without foreign body of right ring finger with damage to nail                         | Diagnosis     | ICD-10-CM |
| S61.334A | Puncture wound without foreign body of right ring finger with damage to nail, initial encounter      | Diagnosis     | ICD-10-CM |
| S61.334D | Puncture wound without foreign body of right ring finger with damage to nail, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S61.334S | Puncture wound without foreign body of right ring finger with damage to nail, sequela                | Diagnosis     | ICD-10-CM |
| S61.335  | Puncture wound without foreign body of left ring finger with damage to nail                          | Diagnosis     | ICD-10-CM |
| S61.335A | Puncture wound without foreign body of left ring finger with damage to nail, initial encounter       | Diagnosis     | ICD-10-CM |
| S61.335D | Puncture wound without foreign body of left ring finger with damage to nail, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S61.335S | Puncture wound without foreign body of left ring finger with damage to nail, sequela                 | Diagnosis     | ICD-10-CM |
| S61.336  | Puncture wound without foreign body of right little finger with damage to nail                       | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S61.336A | Puncture wound without foreign body of right little finger with damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S61.336D | Puncture wound without foreign body of right little finger with damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S61.336S | Puncture wound without foreign body of right little finger with damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S61.337  | Puncture wound without foreign body of left little finger with damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.337A | Puncture wound without foreign body of left little finger with damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.337D | Puncture wound without foreign body of left little finger with damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.337S | Puncture wound without foreign body of left little finger with damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.338  | Puncture wound without foreign body of other finger with damage to nail                              | Diagnosis     | ICD-10-CM |
| S61.338A | Puncture wound without foreign body of other finger with damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S61.338D | Puncture wound without foreign body of other finger with damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S61.338S | Puncture wound without foreign body of other finger with damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S61.339  | Puncture wound without foreign body of unspecified finger with damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.339A | Puncture wound without foreign body of unspecified finger with damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.339D | Puncture wound without foreign body of unspecified finger with damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.339S | Puncture wound without foreign body of unspecified finger with damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.34   | Puncture wound with foreign body of finger with damage to nail                                       | Diagnosis     | ICD-10-CM |
| S61.340  | Puncture wound with foreign body of right index finger with damage to nail                           | Diagnosis     | ICD-10-CM |
| S61.340A | Puncture wound with foreign body of right index finger with damage to nail, initial encounter        | Diagnosis     | ICD-10-CM |
| S61.340D | Puncture wound with foreign body of right index finger with damage to nail, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S61.340S | Puncture wound with foreign body of right index finger with damage to nail, sequela                  | Diagnosis     | ICD-10-CM |
| S61.341  | Puncture wound with foreign body of left index finger with damage to nail                            | Diagnosis     | ICD-10-CM |
| S61.341A | Puncture wound with foreign body of left index finger with damage to nail, initial encounter         | Diagnosis     | ICD-10-CM |
| S61.341D | Puncture wound with foreign body of left index finger with damage to nail, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S61.341S | Puncture wound with foreign body of left index finger with damage to nail, sequela                   | Diagnosis     | ICD-10-CM |
| S61.342  | Puncture wound with foreign body of right middle finger with damage to nail                          | Diagnosis     | ICD-10-CM |
| S61.342A | Puncture wound with foreign body of right middle finger with damage to nail, initial encounter       | Diagnosis     | ICD-10-CM |
| S61.342D | Puncture wound with foreign body of right middle finger with damage to nail, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S61.342S | Puncture wound with foreign body of right middle finger with damage to nail, sequela                 | Diagnosis     | ICD-10-CM |
| S61.343  | Puncture wound with foreign body of left middle finger with damage to nail                           | Diagnosis     | ICD-10-CM |
| S61.343A | Puncture wound with foreign body of left middle finger with damage to nail, initial encounter        | Diagnosis     | ICD-10-CM |
| S61.343D | Puncture wound with foreign body of left middle finger with damage to nail, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S61.343S | Puncture wound with foreign body of left middle finger with damage to nail, sequela                  | Diagnosis     | ICD-10-CM |
| S61.344  | Puncture wound with foreign body of right ring finger with damage to nail                            | Diagnosis     | ICD-10-CM |
| S61.344A | Puncture wound with foreign body of right ring finger with damage to nail, initial encounter         | Diagnosis     | ICD-10-CM |
| S61.344D | Puncture wound with foreign body of right ring finger with damage to nail, subsequent encounter      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S61.344S | Puncture wound with foreign body of right ring finger with damage to nail, sequela                | Diagnosis     | ICD-10-CM |
| S61.345  | Puncture wound with foreign body of left ring finger with damage to nail                          | Diagnosis     | ICD-10-CM |
| S61.345A | Puncture wound with foreign body of left ring finger with damage to nail, initial encounter       | Diagnosis     | ICD-10-CM |
| S61.345D | Puncture wound with foreign body of left ring finger with damage to nail, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S61.345S | Puncture wound with foreign body of left ring finger with damage to nail, sequela                 | Diagnosis     | ICD-10-CM |
| S61.346  | Puncture wound with foreign body of right little finger with damage to nail                       | Diagnosis     | ICD-10-CM |
| S61.346A | Puncture wound with foreign body of right little finger with damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S61.346D | Puncture wound with foreign body of right little finger with damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S61.346S | Puncture wound with foreign body of right little finger with damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S61.347  | Puncture wound with foreign body of left little finger with damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.347A | Puncture wound with foreign body of left little finger with damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.347D | Puncture wound with foreign body of left little finger with damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.347S | Puncture wound with foreign body of left little finger with damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.348  | Puncture wound with foreign body of other finger with damage to nail                              | Diagnosis     | ICD-10-CM |
| S61.348A | Puncture wound with foreign body of other finger with damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S61.348D | Puncture wound with foreign body of other finger with damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S61.348S | Puncture wound with foreign body of other finger with damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S61.349  | Puncture wound with foreign body of unspecified finger with damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.349A | Puncture wound with foreign body of unspecified finger with damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.349D | Puncture wound with foreign body of unspecified finger with damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.349S | Puncture wound with foreign body of unspecified finger with damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.35   | Open bite of finger with damage to nail   | Diagnosis     | ICD-10-CM |
| S61.350  | Open bite of right index finger with damage to nail   | Diagnosis     | ICD-10-CM |
| S61.350A | Open bite of right index finger with damage to nail, initial encounter                            | Diagnosis     | ICD-10-CM |
| S61.350D | Open bite of right index finger with damage to nail, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S61.350S | Open bite of right index finger with damage to nail, sequela                                      | Diagnosis     | ICD-10-CM |
| S61.351  | Open bite of left index finger with damage to nail  | Diagnosis     | ICD-10-CM |
| S61.351A | Open bite of left index finger with damage to nail, initial encounter                             | Diagnosis     | ICD-10-CM |
| S61.351D | Open bite of left index finger with damage to nail, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S61.351S | Open bite of left index finger with damage to nail, sequela                                       | Diagnosis     | ICD-10-CM |
| S61.352  | Open bite of right middle finger with damage to nail  | Diagnosis     | ICD-10-CM |
| S61.352A | Open bite of right middle finger with damage to nail, initial encounter                           | Diagnosis     | ICD-10-CM |
| S61.352D | Open bite of right middle finger with damage to nail, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S61.352S | Open bite of right middle finger with damage to nail, sequela                                     | Diagnosis     | ICD-10-CM |
| S61.353  | Open bite of left middle finger with damage to nail   | Diagnosis     | ICD-10-CM |
| S61.353A | Open bite of left middle finger with damage to nail, initial encounter                            | Diagnosis     | ICD-10-CM |
| S61.353D | Open bite of left middle finger with damage to nail, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S61.353S | Open bite of left middle finger with damage to nail, sequela                                      | Diagnosis     | ICD-10-CM |
| S61.354  | Open bite of right ring finger with damage to nail  | Diagnosis     | ICD-10-CM |
| S61.354A | Open bite of right ring finger with damage to nail, initial encounter                             | Diagnosis     | ICD-10-CM |
| S61.354D | Open bite of right ring finger with damage to nail, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S61.354S | Open bite of right ring finger with damage to nail, sequela                                       | Diagnosis     | ICD-10-CM |
| S61.355  | Open bite of left ring finger with damage to nail   | Diagnosis     | ICD-10-CM |
| S61.355A | Open bite of left ring finger with damage to nail, initial encounter                              | Diagnosis     | ICD-10-CM |
| S61.355D | Open bite of left ring finger with damage to nail, subsequent encounter                           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S61.355S | Open bite of left ring finger with damage to nail, sequela                 | Diagnosis     | ICD-10-CM |
| S61.356  | Open bite of right little finger with damage to nail                       | Diagnosis     | ICD-10-CM |
| S61.356A | Open bite of right little finger with damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S61.356D | Open bite of right little finger with damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S61.356S | Open bite of right little finger with damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S61.357  | Open bite of left little finger with damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.357A | Open bite of left little finger with damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.357D | Open bite of left little finger with damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.357S | Open bite of left little finger with damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.358  | Open bite of other finger with damage to nail                              | Diagnosis     | ICD-10-CM |
| S61.358A | Open bite of other finger with damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S61.358D | Open bite of other finger with damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S61.358S | Open bite of other finger with damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S61.359  | Open bite of unspecified finger with damage to nail                        | Diagnosis     | ICD-10-CM |
| S61.359A | Open bite of unspecified finger with damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.359D | Open bite of unspecified finger with damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.359S | Open bite of unspecified finger with damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S61.4    | Open wound of hand   | Diagnosis     | ICD-10-CM |
| S61.40   | Unspecified open wound of hand   | Diagnosis     | ICD-10-CM |
| S61.401  | Unspecified open wound of right hand                                       | Diagnosis     | ICD-10-CM |
| S61.401A | Unspecified open wound of right hand, initial encounter                    | Diagnosis     | ICD-10-CM |
| S61.401D | Unspecified open wound of right hand, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S61.401S | Unspecified open wound of right hand, sequela                              | Diagnosis     | ICD-10-CM |
| S61.402  | Unspecified open wound of left hand  | Diagnosis     | ICD-10-CM |
| S61.402A | Unspecified open wound of left hand, initial encounter                     | Diagnosis     | ICD-10-CM |
| S61.402D | Unspecified open wound of left hand, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S61.402S | Unspecified open wound of left hand, sequela                               | Diagnosis     | ICD-10-CM |
| S61.409  | Unspecified open wound of unspecified hand                                 | Diagnosis     | ICD-10-CM |
| S61.409A | Unspecified open wound of unspecified hand, initial encounter              | Diagnosis     | ICD-10-CM |
| S61.409D | Unspecified open wound of unspecified hand, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S61.409S | Unspecified open wound of unspecified hand, sequela                        | Diagnosis     | ICD-10-CM |
| S61.41   | Laceration without foreign body of hand                                    | Diagnosis     | ICD-10-CM |
| S61.411  | Laceration without foreign body of right hand                              | Diagnosis     | ICD-10-CM |
| S61.411A | Laceration without foreign body of right hand, initial encounter           | Diagnosis     | ICD-10-CM |
| S61.411D | Laceration without foreign body of right hand, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S61.411S | Laceration without foreign body of right hand, sequela                     | Diagnosis     | ICD-10-CM |
| S61.412  | Laceration without foreign body of left hand                               | Diagnosis     | ICD-10-CM |
| S61.412A | Laceration without foreign body of left hand, initial encounter            | Diagnosis     | ICD-10-CM |
| S61.412D | Laceration without foreign body of left hand, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S61.412S | Laceration without foreign body of left hand, sequela                      | Diagnosis     | ICD-10-CM |
| S61.419  | Laceration without foreign body of unspecified hand                        | Diagnosis     | ICD-10-CM |
| S61.419A | Laceration without foreign body of unspecified hand, initial encounter     | Diagnosis     | ICD-10-CM |
| S61.419D | Laceration without foreign body of unspecified hand, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.419S | Laceration without foreign body of unspecified hand, sequela               | Diagnosis     | ICD-10-CM |
| S61.42   | Laceration with foreign body of hand                                       | Diagnosis     | ICD-10-CM |
| S61.421  | Laceration with foreign body of right hand                                 | Diagnosis     | ICD-10-CM |
| S61.421A | Laceration with foreign body of right hand, initial encounter              | Diagnosis     | ICD-10-CM |
| S61.421D | Laceration with foreign body of right hand, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S61.421S | Laceration with foreign body of right hand, sequela                        | Diagnosis     | ICD-10-CM |
| S61.422  | Laceration with foreign body of left hand                                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S61.422A | Laceration with foreign body of left hand, initial encounter                  | Diagnosis     | ICD-10-CM |
| S61.422D | Laceration with foreign body of left hand, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S61.422S | Laceration with foreign body of left hand, sequela                            | Diagnosis     | ICD-10-CM |
| S61.429  | Laceration with foreign body of unspecified hand                              | Diagnosis     | ICD-10-CM |
| S61.429A | Laceration with foreign body of unspecified hand, initial encounter           | Diagnosis     | ICD-10-CM |
| S61.429D | Laceration with foreign body of unspecified hand, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S61.429S | Laceration with foreign body of unspecified hand, sequela                     | Diagnosis     | ICD-10-CM |
| S61.43   | Puncture wound without foreign body of hand                                   | Diagnosis     | ICD-10-CM |
| S61.431  | Puncture wound without foreign body of right hand                             | Diagnosis     | ICD-10-CM |
| S61.431A | Puncture wound without foreign body of right hand, initial encounter          | Diagnosis     | ICD-10-CM |
| S61.431D | Puncture wound without foreign body of right hand, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S61.431S | Puncture wound without foreign body of right hand, sequela                    | Diagnosis     | ICD-10-CM |
| S61.432  | Puncture wound without foreign body of left hand                              | Diagnosis     | ICD-10-CM |
| S61.432A | Puncture wound without foreign body of left hand, initial encounter           | Diagnosis     | ICD-10-CM |
| S61.432D | Puncture wound without foreign body of left hand, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S61.432S | Puncture wound without foreign body of left hand, sequela                     | Diagnosis     | ICD-10-CM |
| S61.439  | Puncture wound without foreign body of unspecified hand                       | Diagnosis     | ICD-10-CM |
| S61.439A | Puncture wound without foreign body of unspecified hand, initial encounter    | Diagnosis     | ICD-10-CM |
| S61.439D | Puncture wound without foreign body of unspecified hand, subsequent encounter | Diagnosis     | ICD-10-CM |
| S61.439S | Puncture wound without foreign body of unspecified hand, sequela              | Diagnosis     | ICD-10-CM |
| S61.44   | Puncture wound with foreign body of hand                                      | Diagnosis     | ICD-10-CM |
| S61.441  | Puncture wound with foreign body of right hand                                | Diagnosis     | ICD-10-CM |
| S61.441A | Puncture wound with foreign body of right hand, initial encounter             | Diagnosis     | ICD-10-CM |
| S61.441D | Puncture wound with foreign body of right hand, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S61.441S | Puncture wound with foreign body of right hand, sequela                       | Diagnosis     | ICD-10-CM |
| S61.442  | Puncture wound with foreign body of left hand                                 | Diagnosis     | ICD-10-CM |
| S61.442A | Puncture wound with foreign body of left hand, initial encounter              | Diagnosis     | ICD-10-CM |
| S61.442D | Puncture wound with foreign body of left hand, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S61.442S | Puncture wound with foreign body of left hand, sequela                        | Diagnosis     | ICD-10-CM |
| S61.449  | Puncture wound with foreign body of unspecified hand                          | Diagnosis     | ICD-10-CM |
| S61.449A | Puncture wound with foreign body of unspecified hand, initial encounter       | Diagnosis     | ICD-10-CM |
| S61.449D | Puncture wound with foreign body of unspecified hand, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S61.449S | Puncture wound with foreign body of unspecified hand, sequela                 | Diagnosis     | ICD-10-CM |
| S61.45   | Open bite of hand   | Diagnosis     | ICD-10-CM |
| S61.451  | Open bite of right hand   | Diagnosis     | ICD-10-CM |
| S61.451A | Open bite of right hand, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S61.451D | Open bite of right hand, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S61.451S | Open bite of right hand, sequela  | Diagnosis     | ICD-10-CM |
| S61.452  | Open bite of left hand  | Diagnosis     | ICD-10-CM |
| S61.452A | Open bite of left hand, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S61.452D | Open bite of left hand, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S61.452S | Open bite of left hand, sequela   | Diagnosis     | ICD-10-CM |
| S61.459  | Open bite of unspecified hand   | Diagnosis     | ICD-10-CM |
| S61.459A | Open bite of unspecified hand, initial encounter                              | Diagnosis     | ICD-10-CM |
| S61.459D | Open bite of unspecified hand, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S61.459S | Open bite of unspecified hand, sequela  | Diagnosis     | ICD-10-CM |
| S61.5    | Open wound of wrist   | Diagnosis     | ICD-10-CM |
| S61.50   | Unspecified open wound of wrist   | Diagnosis     | ICD-10-CM |
| S61.501  | Unspecified open wound of right wrist   | Diagnosis     | ICD-10-CM |
| S61.501A | Unspecified open wound of right wrist, initial encounter                      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S61.501D | Unspecified open wound of right wrist, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S61.501S | Unspecified open wound of right wrist, sequela                                 | Diagnosis     | ICD-10-CM |
| S61.502  | Unspecified open wound of left wrist   | Diagnosis     | ICD-10-CM |
| S61.502A | Unspecified open wound of left wrist, initial encounter                        | Diagnosis     | ICD-10-CM |
| S61.502D | Unspecified open wound of left wrist, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S61.502S | Unspecified open wound of left wrist, sequela                                  | Diagnosis     | ICD-10-CM |
| S61.509  | Unspecified open wound of unspecified wrist                                    | Diagnosis     | ICD-10-CM |
| S61.509A | Unspecified open wound of unspecified wrist, initial encounter                 | Diagnosis     | ICD-10-CM |
| S61.509D | Unspecified open wound of unspecified wrist, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S61.509S | Unspecified open wound of unspecified wrist, sequela                           | Diagnosis     | ICD-10-CM |
| S61.51   | Laceration without foreign body of wrist                                       | Diagnosis     | ICD-10-CM |
| S61.511  | Laceration without foreign body of right wrist                                 | Diagnosis     | ICD-10-CM |
| S61.511A | Laceration without foreign body of right wrist, initial encounter              | Diagnosis     | ICD-10-CM |
| S61.511D | Laceration without foreign body of right wrist, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S61.511S | Laceration without foreign body of right wrist, sequela                        | Diagnosis     | ICD-10-CM |
| S61.512  | Laceration without foreign body of left wrist                                  | Diagnosis     | ICD-10-CM |
| S61.512A | Laceration without foreign body of left wrist, initial encounter               | Diagnosis     | ICD-10-CM |
| S61.512D | Laceration without foreign body of left wrist, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S61.512S | Laceration without foreign body of left wrist, sequela                         | Diagnosis     | ICD-10-CM |
| S61.519  | Laceration without foreign body of unspecified wrist                           | Diagnosis     | ICD-10-CM |
| S61.519A | Laceration without foreign body of unspecified wrist, initial encounter        | Diagnosis     | ICD-10-CM |
| S61.519D | Laceration without foreign body of unspecified wrist, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S61.519S | Laceration without foreign body of unspecified wrist, sequela                  | Diagnosis     | ICD-10-CM |
| S61.52   | Laceration with foreign body of wrist  | Diagnosis     | ICD-10-CM |
| S61.521  | Laceration with foreign body of right wrist                                    | Diagnosis     | ICD-10-CM |
| S61.521A | Laceration with foreign body of right wrist, initial encounter                 | Diagnosis     | ICD-10-CM |
| S61.521D | Laceration with foreign body of right wrist, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S61.521S | Laceration with foreign body of right wrist, sequela                           | Diagnosis     | ICD-10-CM |
| S61.522  | Laceration with foreign body of left wrist                                     | Diagnosis     | ICD-10-CM |
| S61.522A | Laceration with foreign body of left wrist, initial encounter                  | Diagnosis     | ICD-10-CM |
| S61.522D | Laceration with foreign body of left wrist, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S61.522S | Laceration with foreign body of left wrist, sequela                            | Diagnosis     | ICD-10-CM |
| S61.529  | Laceration with foreign body of unspecified wrist                              | Diagnosis     | ICD-10-CM |
| S61.529A | Laceration with foreign body of unspecified wrist, initial encounter           | Diagnosis     | ICD-10-CM |
| S61.529D | Laceration with foreign body of unspecified wrist, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S61.529S | Laceration with foreign body of unspecified wrist, sequela                     | Diagnosis     | ICD-10-CM |
| S61.53   | Puncture wound without foreign body of wrist                                   | Diagnosis     | ICD-10-CM |
| S61.531  | Puncture wound without foreign body of right wrist                             | Diagnosis     | ICD-10-CM |
| S61.531A | Puncture wound without foreign body of right wrist, initial encounter          | Diagnosis     | ICD-10-CM |
| S61.531D | Puncture wound without foreign body of right wrist, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S61.531S | Puncture wound without foreign body of right wrist, sequela                    | Diagnosis     | ICD-10-CM |
| S61.532  | Puncture wound without foreign body of left wrist                              | Diagnosis     | ICD-10-CM |
| S61.532A | Puncture wound without foreign body of left wrist, initial encounter           | Diagnosis     | ICD-10-CM |
| S61.532D | Puncture wound without foreign body of left wrist, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S61.532S | Puncture wound without foreign body of left wrist, sequela                     | Diagnosis     | ICD-10-CM |
| S61.539  | Puncture wound without foreign body of unspecified wrist                       | Diagnosis     | ICD-10-CM |
| S61.539A | Puncture wound without foreign body of unspecified wrist, initial encounter    | Diagnosis     | ICD-10-CM |
| S61.539D | Puncture wound without foreign body of unspecified wrist, subsequent encounter | Diagnosis     | ICD-10-CM |
| S61.539S | Puncture wound without foreign body of unspecified wrist, sequela              | Diagnosis     | ICD-10-CM |
| S61.54   | Puncture wound with foreign body of wrist                                      | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S61.541  | Puncture wound with foreign body of right wrist  | Diagnosis     | ICD-10-CM |
| S61.541A | Puncture wound with foreign body of right wrist, initial encounter   | Diagnosis     | ICD-10-CM |
| S61.541D | Puncture wound with foreign body of right wrist, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.541S | Puncture wound with foreign body of right wrist, sequela   | Diagnosis     | ICD-10-CM |
| S61.542  | Puncture wound with foreign body of left wrist   | Diagnosis     | ICD-10-CM |
| S61.542A | Puncture wound with foreign body of left wrist, initial encounter  | Diagnosis     | ICD-10-CM |
| S61.542D | Puncture wound with foreign body of left wrist, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S61.542S | Puncture wound with foreign body of left wrist, sequela  | Diagnosis     | ICD-10-CM |
| S61.549  | Puncture wound with foreign body of unspecified wrist  | Diagnosis     | ICD-10-CM |
| S61.549A | Puncture wound with foreign body of unspecified wrist, initial encounter   | Diagnosis     | ICD-10-CM |
| S61.549D | Puncture wound with foreign body of unspecified wrist, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.549S | Puncture wound with foreign body of unspecified wrist, sequela   | Diagnosis     | ICD-10-CM |
| S61.55   | Open bite of wrist   | Diagnosis     | ICD-10-CM |
| S61.551  | Open bite of right wrist   | Diagnosis     | ICD-10-CM |
| S61.551A | Open bite of right wrist, initial encounter  | Diagnosis     | ICD-10-CM |
| S61.551D | Open bite of right wrist, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S61.551S | Open bite of right wrist, sequela  | Diagnosis     | ICD-10-CM |
| S61.552  | Open bite of left wrist  | Diagnosis     | ICD-10-CM |
| S61.552A | Open bite of left wrist, initial encounter   | Diagnosis     | ICD-10-CM |
| S61.552D | Open bite of left wrist, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S61.552S | Open bite of left wrist, sequela   | Diagnosis     | ICD-10-CM |
| S61.559  | Open bite of unspecified wrist   | Diagnosis     | ICD-10-CM |
| S61.559A | Open bite of unspecified wrist, initial encounter  | Diagnosis     | ICD-10-CM |
| S61.559D | Open bite of unspecified wrist, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S61.559S | Open bite of unspecified wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62      | Fracture at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S62.0    | Fracture of navicular [scaphoid] bone of wrist   | Diagnosis     | ICD-10-CM |
| S62.00   | Unspecified fracture of navicular [scaphoid] bone of wrist   | Diagnosis     | ICD-10-CM |
| S62.001  | Unspecified fracture of navicular [scaphoid] bone of right wrist   | Diagnosis     | ICD-10-CM |
| S62.001A | Unspecified fracture of navicular [scaphoid] bone of right wrist, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.001B | Unspecified fracture of navicular [scaphoid] bone of right wrist, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.001D | Unspecified fracture of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.001G | Unspecified fracture of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.001K | Unspecified fracture of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.001P | Unspecified fracture of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.001S | Unspecified fracture of navicular [scaphoid] bone of right wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.002  | Unspecified fracture of navicular [scaphoid] bone of left wrist  | Diagnosis     | ICD-10-CM |
| S62.002A | Unspecified fracture of navicular [scaphoid] bone of left wrist, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.002B | Unspecified fracture of navicular [scaphoid] bone of left wrist, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.002D | Unspecified fracture of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.002G | Unspecified fracture of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with delayed healing               | Diagnosis     | ICD-10-CM |
| S62.002K | Unspecified fracture of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with nonunion                      | Diagnosis     | ICD-10-CM |
| S62.002P | Unspecified fracture of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with malunion                      | Diagnosis     | ICD-10-CM |
| S62.002S | Unspecified fracture of navicular [scaphoid] bone of left wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.009  | Unspecified fracture of navicular [scaphoid] bone of unspecified wrist  | Diagnosis     | ICD-10-CM |
| S62.009A | Unspecified fracture of navicular [scaphoid] bone of unspecified wrist, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.009B | Unspecified fracture of navicular [scaphoid] bone of unspecified wrist, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.009D | Unspecified fracture of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.009G | Unspecified fracture of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.009K | Unspecified fracture of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.009P | Unspecified fracture of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.009S | Unspecified fracture of navicular [scaphoid] bone of unspecified wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.01   | Fracture of distal pole of navicular [scaphoid] bone of wrist   | Diagnosis     | ICD-10-CM |
| S62.011  | Displaced fracture of distal pole of navicular [scaphoid] bone of right wrist   | Diagnosis     | ICD-10-CM |
| S62.011A | Displaced fracture of distal pole of navicular [scaphoid] bone of right wrist, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.011B | Displaced fracture of distal pole of navicular [scaphoid] bone of right wrist, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.011D | Displaced fracture of distal pole of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.011G | Displaced fracture of distal pole of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.011K | Displaced fracture of distal pole of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.011P | Displaced fracture of distal pole of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.011S | Displaced fracture of distal pole of navicular [scaphoid] bone of right wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.012  | Displaced fracture of distal pole of navicular [scaphoid] bone of left wrist  | Diagnosis     | ICD-10-CM |
| S62.012A | Displaced fracture of distal pole of navicular [scaphoid] bone of left wrist, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.012B | Displaced fracture of distal pole of navicular [scaphoid] bone of left wrist, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.012D | Displaced fracture of distal pole of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.012G | Displaced fracture of distal pole of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.012K | Displaced fracture of distal pole of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.012P | Displaced fracture of distal pole of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.012S | Displaced fracture of distal pole of navicular [scaphoid] bone of left wrist, sequela   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.013  | Displaced fracture of distal pole of navicular [scaphoid] bone of unspecified wrist  | Diagnosis     | ICD-10-CM |
| S62.013A | Displaced fracture of distal pole of navicular [scaphoid] bone of unspecified wrist, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S62.013B | Displaced fracture of distal pole of navicular [scaphoid] bone of unspecified wrist, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S62.013D | Displaced fracture of distal pole of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S62.013G | Displaced fracture of distal pole of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S62.013K | Displaced fracture of distal pole of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S62.013P | Displaced fracture of distal pole of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S62.013S | Displaced fracture of distal pole of navicular [scaphoid] bone of unspecified wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.014  | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of right wrist   | Diagnosis     | ICD-10-CM |
| S62.014A | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of right wrist, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S62.014B | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of right wrist, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S62.014D | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S62.014G | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.014K | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.014P | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.014S | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of right wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.015  | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of left wrist  | Diagnosis     | ICD-10-CM |
| S62.015A | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of left wrist, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.015B | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of left wrist, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.015D | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.015G | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.015K | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.015P | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.015S | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of left wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.016  | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of unspecified wrist   | Diagnosis     | ICD-10-CM |
| S62.016A | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of unspecified wrist, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.016B | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of unspecified wrist, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.016D | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.016G | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.016K | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.016P | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.016S | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of unspecified wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.02   | Fracture of middle third of navicular [scaphoid] bone of wrist   | Diagnosis     | ICD-10-CM |
| S62.021  | Displaced fracture of middle third of navicular [scaphoid] bone of right wrist   | Diagnosis     | ICD-10-CM |
| S62.021A | Displaced fracture of middle third of navicular [scaphoid] bone of right wrist, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S62.021B | Displaced fracture of middle third of navicular [scaphoid] bone of right wrist, initial encounter for open fracture                            | Diagnosis     | ICD-10-CM |
| S62.021D | Displaced fracture of middle third of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S62.021G | Displaced fracture of middle third of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S62.021K | Displaced fracture of middle third of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S62.021P | Displaced fracture of middle third of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S62.021S | Displaced fracture of middle third of navicular [scaphoid] bone of right wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.022  | Displaced fracture of middle third of navicular [scaphoid] bone of left wrist  | Diagnosis     | ICD-10-CM |
| S62.022A | Displaced fracture of middle third of navicular [scaphoid] bone of left wrist, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S62.022B | Displaced fracture of middle third of navicular [scaphoid] bone of left wrist, initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |
| S62.022D | Displaced fracture of middle third of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S62.022G | Displaced fracture of middle third of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S62.022K | Displaced fracture of middle third of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S62.022P | Displaced fracture of middle third of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with malunion                 | Diagnosis     | ICD-10-CM |
| S62.022S | Displaced fracture of middle third of navicular [scaphoid] bone of left wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.023  | Displaced fracture of middle third of navicular [scaphoid] bone of unspecified wrist   | Diagnosis     | ICD-10-CM |
| S62.023A | Displaced fracture of middle third of navicular [scaphoid] bone of unspecified wrist, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S62.023B | Displaced fracture of middle third of navicular [scaphoid] bone of unspecified wrist, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S62.023D | Displaced fracture of middle third of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S62.023G | Displaced fracture of middle third of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S62.023K | Displaced fracture of middle third of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S62.023P | Displaced fracture of middle third of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.023S | Displaced fracture of middle third of navicular [scaphoid] bone of unspecified wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.024  | Nondisplaced fracture of middle third of navicular [scaphoid] bone of right wrist   | Diagnosis     | ICD-10-CM |
| S62.024A | Nondisplaced fracture of middle third of navicular [scaphoid] bone of right wrist, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S62.024B | Nondisplaced fracture of middle third of navicular [scaphoid] bone of right wrist, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S62.024D | Nondisplaced fracture of middle third of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S62.024G | Nondisplaced fracture of middle third of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.024K | Nondisplaced fracture of middle third of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.024P | Nondisplaced fracture of middle third of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.024S | Nondisplaced fracture of middle third of navicular [scaphoid] bone of right wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.025  | Nondisplaced fracture of middle third of navicular [scaphoid] bone of left wrist  | Diagnosis     | ICD-10-CM |
| S62.025A | Nondisplaced fracture of middle third of navicular [scaphoid] bone of left wrist, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.025B | Nondisplaced fracture of middle third of navicular [scaphoid] bone of left wrist, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.025D | Nondisplaced fracture of middle third of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.025G | Nondisplaced fracture of middle third of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.025K | Nondisplaced fracture of middle third of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.025P | Nondisplaced fracture of middle third of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.025S | Nondisplaced fracture of middle third of navicular [scaphoid] bone of left wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.026  | Nondisplaced fracture of middle third of navicular [scaphoid] bone of unspecified wrist   | Diagnosis     | ICD-10-CM |
| S62.026A | Nondisplaced fracture of middle third of navicular [scaphoid] bone of unspecified wrist, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.026B | Nondisplaced fracture of middle third of navicular [scaphoid] bone of unspecified wrist, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.026D | Nondisplaced fracture of middle third of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.026G | Nondisplaced fracture of middle third of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.026K | Nondisplaced fracture of middle third of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.026P | Nondisplaced fracture of middle third of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.026S | Nondisplaced fracture of middle third of navicular [scaphoid] bone of unspecified wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.03   | Fracture of proximal third of navicular [scaphoid] bone of wrist  | Diagnosis     | ICD-10-CM |
| S62.031  | Displaced fracture of proximal third of navicular [scaphoid] bone of right wrist  | Diagnosis     | ICD-10-CM |
| S62.031A | Displaced fracture of proximal third of navicular [scaphoid] bone of right wrist, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.031B | Displaced fracture of proximal third of navicular [scaphoid] bone of right wrist, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S62.031D | Displaced fracture of proximal third of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S62.031G | Displaced fracture of proximal third of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.031K | Displaced fracture of proximal third of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.031P | Displaced fracture of proximal third of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.031S | Displaced fracture of proximal third of navicular [scaphoid] bone of right wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.032  | Displaced fracture of proximal third of navicular [scaphoid] bone of left wrist  | Diagnosis     | ICD-10-CM |
| S62.032A | Displaced fracture of proximal third of navicular [scaphoid] bone of left wrist, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.032B | Displaced fracture of proximal third of navicular [scaphoid] bone of left wrist, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.032D | Displaced fracture of proximal third of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.032G | Displaced fracture of proximal third of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.032K | Displaced fracture of proximal third of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.032P | Displaced fracture of proximal third of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.032S | Displaced fracture of proximal third of navicular [scaphoid] bone of left wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.033  | Displaced fracture of proximal third of navicular [scaphoid] bone of unspecified wrist   | Diagnosis     | ICD-10-CM |
| S62.033A | Displaced fracture of proximal third of navicular [scaphoid] bone of unspecified wrist, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.033B | Displaced fracture of proximal third of navicular [scaphoid] bone of unspecified wrist, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.033D | Displaced fracture of proximal third of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.033G | Displaced fracture of proximal third of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.033K | Displaced fracture of proximal third of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.033P | Displaced fracture of proximal third of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.033S | Displaced fracture of proximal third of navicular [scaphoid] bone of unspecified wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.034  | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of right wrist  | Diagnosis     | ICD-10-CM |
| S62.034A | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of right wrist, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S62.034B | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of right wrist, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S62.034D | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S62.034G | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.034K | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.034P | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.034S | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of right wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.035  | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of left wrist  | Diagnosis     | ICD-10-CM |
| S62.035A | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of left wrist, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.035B | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of left wrist, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.035D | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.035G | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.035K | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.035P | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of left wrist, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.035S | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of left wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.036  | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of unspecified wrist   | Diagnosis     | ICD-10-CM |
| S62.036A | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of unspecified wrist, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.036B | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of unspecified wrist, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.036D | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.036G | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.036K | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.036P | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of unspecified wrist, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.036S | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of unspecified wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.1    | Fracture of other and unspecified carpal bone(s)  | Diagnosis     | ICD-10-CM |
| S62.10   | Fracture of unspecified carpal bone   | Diagnosis     | ICD-10-CM |
| S62.101  | Fracture of unspecified carpal bone, right wrist  | Diagnosis     | ICD-10-CM |
| S62.101A | Fracture of unspecified carpal bone, right wrist, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S62.101B | Fracture of unspecified carpal bone, right wrist, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S62.101D | Fracture of unspecified carpal bone, right wrist, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.101G | Fracture of unspecified carpal bone, right wrist, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.101K | Fracture of unspecified carpal bone, right wrist, subsequent encounter for fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S62.101P | Fracture of unspecified carpal bone, right wrist, subsequent encounter for fracture with malunion   | Diagnosis     | ICD-10-CM |
| S62.101S | Fracture of unspecified carpal bone, right wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.102  | Fracture of unspecified carpal bone, left wrist   | Diagnosis     | ICD-10-CM |
| S62.102A | Fracture of unspecified carpal bone, left wrist, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.102B | Fracture of unspecified carpal bone, left wrist, initial encounter for open fracture                                   | Diagnosis     | ICD-10-CM |
| S62.102D | Fracture of unspecified carpal bone, left wrist, subsequent encounter for fracture with routine healing                | Diagnosis     | ICD-10-CM |
| S62.102G | Fracture of unspecified carpal bone, left wrist, subsequent encounter for fracture with delayed healing                | Diagnosis     | ICD-10-CM |
| S62.102K | Fracture of unspecified carpal bone, left wrist, subsequent encounter for fracture with nonunion                       | Diagnosis     | ICD-10-CM |
| S62.102P | Fracture of unspecified carpal bone, left wrist, subsequent encounter for fracture with malunion                       | Diagnosis     | ICD-10-CM |
| S62.102S | Fracture of unspecified carpal bone, left wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.109  | Fracture of unspecified carpal bone, unspecified wrist   | Diagnosis     | ICD-10-CM |
| S62.109A | Fracture of unspecified carpal bone, unspecified wrist, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S62.109B | Fracture of unspecified carpal bone, unspecified wrist, initial encounter for open fracture                            | Diagnosis     | ICD-10-CM |
| S62.109D | Fracture of unspecified carpal bone, unspecified wrist, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S62.109G | Fracture of unspecified carpal bone, unspecified wrist, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S62.109K | Fracture of unspecified carpal bone, unspecified wrist, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S62.109P | Fracture of unspecified carpal bone, unspecified wrist, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S62.109S | Fracture of unspecified carpal bone, unspecified wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.11   | Fracture of triquetrum [cuneiform] bone of wrist   | Diagnosis     | ICD-10-CM |
| S62.111  | Displaced fracture of triquetrum [cuneiform] bone, right wrist   | Diagnosis     | ICD-10-CM |
| S62.111A | Displaced fracture of triquetrum [cuneiform] bone, right wrist, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.111B | Displaced fracture of triquetrum [cuneiform] bone, right wrist, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.111D | Displaced fracture of triquetrum [cuneiform] bone, right wrist, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.111G | Displaced fracture of triquetrum [cuneiform] bone, right wrist, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.111K | Displaced fracture of triquetrum [cuneiform] bone, right wrist, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.111P | Displaced fracture of triquetrum [cuneiform] bone, right wrist, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.111S | Displaced fracture of triquetrum [cuneiform] bone, right wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.112  | Displaced fracture of triquetrum [cuneiform] bone, left wrist  | Diagnosis     | ICD-10-CM |
| S62.112A | Displaced fracture of triquetrum [cuneiform] bone, left wrist, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.112B | Displaced fracture of triquetrum [cuneiform] bone, left wrist, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.112D | Displaced fracture of triquetrum [cuneiform] bone, left wrist, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.112G | Displaced fracture of triquetrum [cuneiform] bone, left wrist, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.112K | Displaced fracture of triquetrum [cuneiform] bone, left wrist, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.112P | Displaced fracture of triquetrum [cuneiform] bone, left wrist, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.112S | Displaced fracture of triquetrum [cuneiform] bone, left wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.113  | Displaced fracture of triquetrum [cuneiform] bone, unspecified wrist  | Diagnosis     | ICD-10-CM |
| S62.113A | Displaced fracture of triquetrum [cuneiform] bone, unspecified wrist, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S62.113B | Displaced fracture of triquetrum [cuneiform] bone, unspecified wrist, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S62.113D | Displaced fracture of triquetrum [cuneiform] bone, unspecified wrist, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S62.113G | Displaced fracture of triquetrum [cuneiform] bone, unspecified wrist, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S62.113K | Displaced fracture of triquetrum [cuneiform] bone, unspecified wrist, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S62.113P | Displaced fracture of triquetrum [cuneiform] bone, unspecified wrist, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S62.113S | Displaced fracture of triquetrum [cuneiform] bone, unspecified wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.114  | Nondisplaced fracture of triquetrum [cuneiform] bone, right wrist   | Diagnosis     | ICD-10-CM |
| S62.114A | Nondisplaced fracture of triquetrum [cuneiform] bone, right wrist, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S62.114B | Nondisplaced fracture of triquetrum [cuneiform] bone, right wrist, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S62.114D | Nondisplaced fracture of triquetrum [cuneiform] bone, right wrist, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S62.114G | Nondisplaced fracture of triquetrum [cuneiform] bone, right wrist, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.114K | Nondisplaced fracture of triquetrum [cuneiform] bone, right wrist, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.114P | Nondisplaced fracture of triquetrum [cuneiform] bone, right wrist, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.114S | Nondisplaced fracture of triquetrum [cuneiform] bone, right wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.115  | Nondisplaced fracture of triquetrum [cuneiform] bone, left wrist  | Diagnosis     | ICD-10-CM |
| S62.115A | Nondisplaced fracture of triquetrum [cuneiform] bone, left wrist, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.115B | Nondisplaced fracture of triquetrum [cuneiform] bone, left wrist, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.115D | Nondisplaced fracture of triquetrum [cuneiform] bone, left wrist, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.115G | Nondisplaced fracture of triquetrum [cuneiform] bone, left wrist, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.115K | Nondisplaced fracture of triquetrum [cuneiform] bone, left wrist, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.115P | Nondisplaced fracture of triquetrum [cuneiform] bone, left wrist, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.115S | Nondisplaced fracture of triquetrum [cuneiform] bone, left wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.116  | Nondisplaced fracture of triquetrum [cuneiform] bone, unspecified wrist   | Diagnosis     | ICD-10-CM |
| S62.116A | Nondisplaced fracture of triquetrum [cuneiform] bone, unspecified wrist, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.116B | Nondisplaced fracture of triquetrum [cuneiform] bone, unspecified wrist, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.116D | Nondisplaced fracture of triquetrum [cuneiform] bone, unspecified wrist, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.116G | Nondisplaced fracture of triquetrum [cuneiform] bone, unspecified wrist, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.116K | Nondisplaced fracture of triquetrum [cuneiform] bone, unspecified wrist, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.116P | Nondisplaced fracture of triquetrum [cuneiform] bone, unspecified wrist, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.116S | Nondisplaced fracture of triquetrum [cuneiform] bone, unspecified wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.12   | Fracture of lunate [semilunar]  | Diagnosis     | ICD-10-CM |
| S62.121  | Displaced fracture of lunate [semilunar], right wrist   | Diagnosis     | ICD-10-CM |
| S62.121A | Displaced fracture of lunate [semilunar], right wrist, initial encounter for closed fracture                                    | Diagnosis     | ICD-10-CM |
| S62.121B | Displaced fracture of lunate [semilunar], right wrist, initial encounter for open fracture                                      | Diagnosis     | ICD-10-CM |
| S62.121D | Displaced fracture of lunate [semilunar], right wrist, subsequent encounter for fracture with routine healing                   | Diagnosis     | ICD-10-CM |
| S62.121G | Displaced fracture of lunate [semilunar], right wrist, subsequent encounter for fracture with delayed healing                   | Diagnosis     | ICD-10-CM |
| S62.121K | Displaced fracture of lunate [semilunar], right wrist, subsequent encounter for fracture with nonunion                          | Diagnosis     | ICD-10-CM |
| S62.121P | Displaced fracture of lunate [semilunar], right wrist, subsequent encounter for fracture with malunion                          | Diagnosis     | ICD-10-CM |
| S62.121S | Displaced fracture of lunate [semilunar], right wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.122  | Displaced fracture of lunate [semilunar], left wrist  | Diagnosis     | ICD-10-CM |
| S62.122A | Displaced fracture of lunate [semilunar], left wrist, initial encounter for closed fracture                                     | Diagnosis     | ICD-10-CM |
| S62.122B | Displaced fracture of lunate [semilunar], left wrist, initial encounter for open fracture                                       | Diagnosis     | ICD-10-CM |
| S62.122D | Displaced fracture of lunate [semilunar], left wrist, subsequent encounter for fracture with routine healing                    | Diagnosis     | ICD-10-CM |
| S62.122G | Displaced fracture of lunate [semilunar], left wrist, subsequent encounter for fracture with delayed healing                    | Diagnosis     | ICD-10-CM |
| S62.122K | Displaced fracture of lunate [semilunar], left wrist, subsequent encounter for fracture with nonunion                           | Diagnosis     | ICD-10-CM |
| S62.122P | Displaced fracture of lunate [semilunar], left wrist, subsequent encounter for fracture with malunion                           | Diagnosis     | ICD-10-CM |
| S62.122S | Displaced fracture of lunate [semilunar], left wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.123  | Displaced fracture of lunate [semilunar], unspecified wrist   | Diagnosis     | ICD-10-CM |
| S62.123A | Displaced fracture of lunate [semilunar], unspecified wrist, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S62.123B | Displaced fracture of lunate [semilunar], unspecified wrist, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S62.123D | Displaced fracture of lunate [semilunar], unspecified wrist, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S62.123G | Displaced fracture of lunate [semilunar], unspecified wrist, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S62.123K | Displaced fracture of lunate [semilunar], unspecified wrist, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S62.123P | Displaced fracture of lunate [semilunar], unspecified wrist, subsequent encounter for fracture with malunion                    | Diagnosis     | ICD-10-CM |
| S62.123S | Displaced fracture of lunate [semilunar], unspecified wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.124  | Nondisplaced fracture of lunate [semilunar], right wrist  | Diagnosis     | ICD-10-CM |
| S62.124A | Nondisplaced fracture of lunate [semilunar], right wrist, initial encounter for closed fracture                                 | Diagnosis     | ICD-10-CM |
| S62.124B | Nondisplaced fracture of lunate [semilunar], right wrist, initial encounter for open fracture                                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.124D | Nondisplaced fracture of lunate [semilunar], right wrist, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S62.124G | Nondisplaced fracture of lunate [semilunar], right wrist, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.124K | Nondisplaced fracture of lunate [semilunar], right wrist, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.124P | Nondisplaced fracture of lunate [semilunar], right wrist, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.124S | Nondisplaced fracture of lunate [semilunar], right wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.125  | Nondisplaced fracture of lunate [semilunar], left wrist  | Diagnosis     | ICD-10-CM |
| S62.125A | Nondisplaced fracture of lunate [semilunar], left wrist, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.125B | Nondisplaced fracture of lunate [semilunar], left wrist, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.125D | Nondisplaced fracture of lunate [semilunar], left wrist, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.125G | Nondisplaced fracture of lunate [semilunar], left wrist, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.125K | Nondisplaced fracture of lunate [semilunar], left wrist, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.125P | Nondisplaced fracture of lunate [semilunar], left wrist, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.125S | Nondisplaced fracture of lunate [semilunar], left wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.126  | Nondisplaced fracture of lunate [semilunar], unspecified wrist   | Diagnosis     | ICD-10-CM |
| S62.126A | Nondisplaced fracture of lunate [semilunar], unspecified wrist, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.126B | Nondisplaced fracture of lunate [semilunar], unspecified wrist, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.126D | Nondisplaced fracture of lunate [semilunar], unspecified wrist, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.126G | Nondisplaced fracture of lunate [semilunar], unspecified wrist, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.126K | Nondisplaced fracture of lunate [semilunar], unspecified wrist, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.126P | Nondisplaced fracture of lunate [semilunar], unspecified wrist, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.126S | Nondisplaced fracture of lunate [semilunar], unspecified wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.13   | Fracture of capitate [os magnum] bone  | Diagnosis     | ICD-10-CM |
| S62.131  | Displaced fracture of capitate [os magnum] bone, right wrist   | Diagnosis     | ICD-10-CM |
| S62.131A | Displaced fracture of capitate [os magnum] bone, right wrist, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S62.131B | Displaced fracture of capitate [os magnum] bone, right wrist, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S62.131D | Displaced fracture of capitate [os magnum] bone, right wrist, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S62.131G | Displaced fracture of capitate [os magnum] bone, right wrist, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S62.131K | Displaced fracture of capitate [os magnum] bone, right wrist, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S62.131P | Displaced fracture of capitate [os magnum] bone, right wrist, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |
| S62.131S | Displaced fracture of capitate [os magnum] bone, right wrist, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.132  | Displaced fracture of capitate [os magnum] bone, left wrist  | Diagnosis     | ICD-10-CM |
| S62.132A | Displaced fracture of capitate [os magnum] bone, left wrist, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.132B | Displaced fracture of capitate [os magnum] bone, left wrist, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.132D | Displaced fracture of capitate [os magnum] bone, left wrist, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.132G | Displaced fracture of capitate [os magnum] bone, left wrist, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.132K | Displaced fracture of capitate [os magnum] bone, left wrist, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.132P | Displaced fracture of capitate [os magnum] bone, left wrist, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.132S | Displaced fracture of capitate [os magnum] bone, left wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.133  | Displaced fracture of capitate [os magnum] bone, unspecified wrist   | Diagnosis     | ICD-10-CM |
| S62.133A | Displaced fracture of capitate [os magnum] bone, unspecified wrist, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.133B | Displaced fracture of capitate [os magnum] bone, unspecified wrist, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.133D | Displaced fracture of capitate [os magnum] bone, unspecified wrist, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.133G | Displaced fracture of capitate [os magnum] bone, unspecified wrist, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.133K | Displaced fracture of capitate [os magnum] bone, unspecified wrist, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.133P | Displaced fracture of capitate [os magnum] bone, unspecified wrist, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.133S | Displaced fracture of capitate [os magnum] bone, unspecified wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.134  | Nondisplaced fracture of capitate [os magnum] bone, right wrist  | Diagnosis     | ICD-10-CM |
| S62.134A | Nondisplaced fracture of capitate [os magnum] bone, right wrist, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S62.134B | Nondisplaced fracture of capitate [os magnum] bone, right wrist, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S62.134D | Nondisplaced fracture of capitate [os magnum] bone, right wrist, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S62.134G | Nondisplaced fracture of capitate [os magnum] bone, right wrist, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S62.134K | Nondisplaced fracture of capitate [os magnum] bone, right wrist, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S62.134P | Nondisplaced fracture of capitate [os magnum] bone, right wrist, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S62.134S | Nondisplaced fracture of capitate [os magnum] bone, right wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.135  | Nondisplaced fracture of capitate [os magnum] bone, left wrist   | Diagnosis     | ICD-10-CM |
| S62.135A | Nondisplaced fracture of capitate [os magnum] bone, left wrist, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S62.135B | Nondisplaced fracture of capitate [os magnum] bone, left wrist, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S62.135D | Nondisplaced fracture of capitate [os magnum] bone, left wrist, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.135G | Nondisplaced fracture of capitate [os magnum] bone, left wrist, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.135K | Nondisplaced fracture of capitate [os magnum] bone, left wrist, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.135P | Nondisplaced fracture of capitate [os magnum] bone, left wrist, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.135S | Nondisplaced fracture of capitate [os magnum] bone, left wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.136  | Nondisplaced fracture of capitate [os magnum] bone, unspecified wrist   | Diagnosis     | ICD-10-CM |
| S62.136A | Nondisplaced fracture of capitate [os magnum] bone, unspecified wrist, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.136B | Nondisplaced fracture of capitate [os magnum] bone, unspecified wrist, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.136D | Nondisplaced fracture of capitate [os magnum] bone, unspecified wrist, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.136G | Nondisplaced fracture of capitate [os magnum] bone, unspecified wrist, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.136K | Nondisplaced fracture of capitate [os magnum] bone, unspecified wrist, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.136P | Nondisplaced fracture of capitate [os magnum] bone, unspecified wrist, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.136S | Nondisplaced fracture of capitate [os magnum] bone, unspecified wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.14   | Fracture of body of hamate [unciform] bone  | Diagnosis     | ICD-10-CM |
| S62.141  | Displaced fracture of body of hamate [unciform] bone, right wrist   | Diagnosis     | ICD-10-CM |
| S62.141A | Displaced fracture of body of hamate [unciform] bone, right wrist, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S62.141B | Displaced fracture of body of hamate [unciform] bone, right wrist, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S62.141D | Displaced fracture of body of hamate [unciform] bone, right wrist, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S62.141G | Displaced fracture of body of hamate [unciform] bone, right wrist, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S62.141K | Displaced fracture of body of hamate [unciform] bone, right wrist, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S62.141P | Displaced fracture of body of hamate [unciform] bone, right wrist, subsequent encounter for fracture with malunion            | Diagnosis     | ICD-10-CM |
| S62.141S | Displaced fracture of body of hamate [unciform] bone, right wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.142  | Displaced fracture of body of hamate [unciform] bone, left wrist  | Diagnosis     | ICD-10-CM |
| S62.142A | Displaced fracture of body of hamate [unciform] bone, left wrist, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S62.142B | Displaced fracture of body of hamate [unciform] bone, left wrist, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S62.142D | Displaced fracture of body of hamate [unciform] bone, left wrist, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S62.142G | Displaced fracture of body of hamate [unciform] bone, left wrist, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S62.142K | Displaced fracture of body of hamate [unciform] bone, left wrist, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S62.142P | Displaced fracture of body of hamate [unciform] bone, left wrist, subsequent encounter for fracture with malunion             | Diagnosis     | ICD-10-CM |
| S62.142S | Displaced fracture of body of hamate [unciform] bone, left wrist, sequela   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.143  | Displaced fracture of body of hamate [unciform] bone, unspecified wrist  | Diagnosis     | ICD-10-CM |
| S62.143A | Displaced fracture of body of hamate [unciform] bone, unspecified wrist, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S62.143B | Displaced fracture of body of hamate [unciform] bone, unspecified wrist, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S62.143D | Displaced fracture of body of hamate [unciform] bone, unspecified wrist, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S62.143G | Displaced fracture of body of hamate [unciform] bone, unspecified wrist, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S62.143K | Displaced fracture of body of hamate [unciform] bone, unspecified wrist, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S62.143P | Displaced fracture of body of hamate [unciform] bone, unspecified wrist, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S62.143S | Displaced fracture of body of hamate [unciform] bone, unspecified wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.144  | Nondisplaced fracture of body of hamate [unciform] bone, right wrist   | Diagnosis     | ICD-10-CM |
| S62.144A | Nondisplaced fracture of body of hamate [unciform] bone, right wrist, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S62.144B | Nondisplaced fracture of body of hamate [unciform] bone, right wrist, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S62.144D | Nondisplaced fracture of body of hamate [unciform] bone, right wrist, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S62.144G | Nondisplaced fracture of body of hamate [unciform] bone, right wrist, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.144K | Nondisplaced fracture of body of hamate [unciform] bone, right wrist, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.144P | Nondisplaced fracture of body of hamate [unciform] bone, right wrist, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.144S | Nondisplaced fracture of body of hamate [unciform] bone, right wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.145  | Nondisplaced fracture of body of hamate [unciform] bone, left wrist  | Diagnosis     | ICD-10-CM |
| S62.145A | Nondisplaced fracture of body of hamate [unciform] bone, left wrist, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.145B | Nondisplaced fracture of body of hamate [unciform] bone, left wrist, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.145D | Nondisplaced fracture of body of hamate [unciform] bone, left wrist, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.145G | Nondisplaced fracture of body of hamate [unciform] bone, left wrist, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.145K | Nondisplaced fracture of body of hamate [unciform] bone, left wrist, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.145P | Nondisplaced fracture of body of hamate [unciform] bone, left wrist, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.145S | Nondisplaced fracture of body of hamate [unciform] bone, left wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.146  | Nondisplaced fracture of body of hamate [unciform] bone, unspecified wrist   | Diagnosis     | ICD-10-CM |
| S62.146A | Nondisplaced fracture of body of hamate [unciform] bone, unspecified wrist, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.146B | Nondisplaced fracture of body of hamate [unciform] bone, unspecified wrist, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.146D | Nondisplaced fracture of body of hamate [unciform] bone, unspecified wrist, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.146G | Nondisplaced fracture of body of hamate [unciform] bone, unspecified wrist, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S62.146K | Nondisplaced fracture of body of hamate [unciform] bone, unspecified wrist, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S62.146P | Nondisplaced fracture of body of hamate [unciform] bone, unspecified wrist, subsequent encounter for fracture with malunion             | Diagnosis     | ICD-10-CM |
| S62.146S | Nondisplaced fracture of body of hamate [unciform] bone, unspecified wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.15   | Fracture of hook process of hamate [unciform] bone  | Diagnosis     | ICD-10-CM |
| S62.151  | Displaced fracture of hook process of hamate [unciform] bone, right wrist   | Diagnosis     | ICD-10-CM |
| S62.151A | Displaced fracture of hook process of hamate [unciform] bone, right wrist, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S62.151B | Displaced fracture of hook process of hamate [unciform] bone, right wrist, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S62.151D | Displaced fracture of hook process of hamate [unciform] bone, right wrist, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S62.151G | Displaced fracture of hook process of hamate [unciform] bone, right wrist, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.151K | Displaced fracture of hook process of hamate [unciform] bone, right wrist, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.151P | Displaced fracture of hook process of hamate [unciform] bone, right wrist, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.151S | Displaced fracture of hook process of hamate [unciform] bone, right wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.152  | Displaced fracture of hook process of hamate [unciform] bone, left wrist  | Diagnosis     | ICD-10-CM |
| S62.152A | Displaced fracture of hook process of hamate [unciform] bone, left wrist, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.152B | Displaced fracture of hook process of hamate [unciform] bone, left wrist, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.152D | Displaced fracture of hook process of hamate [unciform] bone, left wrist, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.152G | Displaced fracture of hook process of hamate [unciform] bone, left wrist, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.152K | Displaced fracture of hook process of hamate [unciform] bone, left wrist, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.152P | Displaced fracture of hook process of hamate [unciform] bone, left wrist, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.152S | Displaced fracture of hook process of hamate [unciform] bone, left wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.153  | Displaced fracture of hook process of hamate [unciform] bone, unspecified wrist   | Diagnosis     | ICD-10-CM |
| S62.153A | Displaced fracture of hook process of hamate [unciform] bone, unspecified wrist, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.153B | Displaced fracture of hook process of hamate [unciform] bone, unspecified wrist, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.153D | Displaced fracture of hook process of hamate [unciform] bone, unspecified wrist, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.153G | Displaced fracture of hook process of hamate [unciform] bone, unspecified wrist, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.153K | Displaced fracture of hook process of hamate [unciform] bone, unspecified wrist, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.153P | Displaced fracture of hook process of hamate [unciform] bone, unspecified wrist, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.153S | Displaced fracture of hook process of hamate [unciform] bone, unspecified wrist, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.154  | Nondisplaced fracture of hook process of hamate [unciform] bone, right wrist   | Diagnosis     | ICD-10-CM |
| S62.154A | Nondisplaced fracture of hook process of hamate [unciform] bone, right wrist, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S62.154B | Nondisplaced fracture of hook process of hamate [unciform] bone, right wrist, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S62.154D | Nondisplaced fracture of hook process of hamate [unciform] bone, right wrist, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S62.154G | Nondisplaced fracture of hook process of hamate [unciform] bone, right wrist, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.154K | Nondisplaced fracture of hook process of hamate [unciform] bone, right wrist, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.154P | Nondisplaced fracture of hook process of hamate [unciform] bone, right wrist, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.154S | Nondisplaced fracture of hook process of hamate [unciform] bone, right wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.155  | Nondisplaced fracture of hook process of hamate [unciform] bone, left wrist  | Diagnosis     | ICD-10-CM |
| S62.155A | Nondisplaced fracture of hook process of hamate [unciform] bone, left wrist, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.155B | Nondisplaced fracture of hook process of hamate [unciform] bone, left wrist, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.155D | Nondisplaced fracture of hook process of hamate [unciform] bone, left wrist, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.155G | Nondisplaced fracture of hook process of hamate [unciform] bone, left wrist, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.155K | Nondisplaced fracture of hook process of hamate [unciform] bone, left wrist, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.155P | Nondisplaced fracture of hook process of hamate [unciform] bone, left wrist, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.155S | Nondisplaced fracture of hook process of hamate [unciform] bone, left wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.156  | Nondisplaced fracture of hook process of hamate [unciform] bone, unspecified wrist   | Diagnosis     | ICD-10-CM |
| S62.156A | Nondisplaced fracture of hook process of hamate [unciform] bone, unspecified wrist, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.156B | Nondisplaced fracture of hook process of hamate [unciform] bone, unspecified wrist, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.156D | Nondisplaced fracture of hook process of hamate [unciform] bone, unspecified wrist, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.156G | Nondisplaced fracture of hook process of hamate [unciform] bone, unspecified wrist, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.156K | Nondisplaced fracture of hook process of hamate [unciform] bone, unspecified wrist, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.156P | Nondisplaced fracture of hook process of hamate [unciform] bone, unspecified wrist, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.156S | Nondisplaced fracture of hook process of hamate [unciform] bone, unspecified wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.16   | Fracture of pisiform   | Diagnosis     | ICD-10-CM |
| S62.161  | Displaced fracture of pisiform, right wrist  | Diagnosis     | ICD-10-CM |
| S62.161A | Displaced fracture of pisiform, right wrist, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S62.161B | Displaced fracture of pisiform, right wrist, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S62.161D | Displaced fracture of pisiform, right wrist, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.161G | Displaced fracture of pisiform, right wrist, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.161K | Displaced fracture of pisiform, right wrist, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.161P | Displaced fracture of pisiform, right wrist, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.161S | Displaced fracture of pisiform, right wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.162  | Displaced fracture of pisiform, left wrist  | Diagnosis     | ICD-10-CM |
| S62.162A | Displaced fracture of pisiform, left wrist, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.162B | Displaced fracture of pisiform, left wrist, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.162D | Displaced fracture of pisiform, left wrist, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.162G | Displaced fracture of pisiform, left wrist, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.162K | Displaced fracture of pisiform, left wrist, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.162P | Displaced fracture of pisiform, left wrist, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.162S | Displaced fracture of pisiform, left wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.163  | Displaced fracture of pisiform, unspecified wrist   | Diagnosis     | ICD-10-CM |
| S62.163A | Displaced fracture of pisiform, unspecified wrist, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.163B | Displaced fracture of pisiform, unspecified wrist, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.163D | Displaced fracture of pisiform, unspecified wrist, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.163G | Displaced fracture of pisiform, unspecified wrist, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.163K | Displaced fracture of pisiform, unspecified wrist, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.163P | Displaced fracture of pisiform, unspecified wrist, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.163S | Displaced fracture of pisiform, unspecified wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.164  | Nondisplaced fracture of pisiform, right wrist  | Diagnosis     | ICD-10-CM |
| S62.164A | Nondisplaced fracture of pisiform, right wrist, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S62.164B | Nondisplaced fracture of pisiform, right wrist, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S62.164D | Nondisplaced fracture of pisiform, right wrist, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S62.164G | Nondisplaced fracture of pisiform, right wrist, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S62.164K | Nondisplaced fracture of pisiform, right wrist, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S62.164P | Nondisplaced fracture of pisiform, right wrist, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S62.164S | Nondisplaced fracture of pisiform, right wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.165  | Nondisplaced fracture of pisiform, left wrist   | Diagnosis     | ICD-10-CM |
| S62.165A | Nondisplaced fracture of pisiform, left wrist, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S62.165B | Nondisplaced fracture of pisiform, left wrist, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S62.165D | Nondisplaced fracture of pisiform, left wrist, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S62.165G | Nondisplaced fracture of pisiform, left wrist, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S62.165K | Nondisplaced fracture of pisiform, left wrist, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S62.165P | Nondisplaced fracture of pisiform, left wrist, subsequent encounter for fracture with malunion            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.165S | Nondisplaced fracture of pisiform, left wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.166  | Nondisplaced fracture of pisiform, unspecified wrist  | Diagnosis     | ICD-10-CM |
| S62.166A | Nondisplaced fracture of pisiform, unspecified wrist, initial encounter for closed fracture                                     | Diagnosis     | ICD-10-CM |
| S62.166B | Nondisplaced fracture of pisiform, unspecified wrist, initial encounter for open fracture                                       | Diagnosis     | ICD-10-CM |
| S62.166D | Nondisplaced fracture of pisiform, unspecified wrist, subsequent encounter for fracture with routine healing                    | Diagnosis     | ICD-10-CM |
| S62.166G | Nondisplaced fracture of pisiform, unspecified wrist, subsequent encounter for fracture with delayed healing                    | Diagnosis     | ICD-10-CM |
| S62.166K | Nondisplaced fracture of pisiform, unspecified wrist, subsequent encounter for fracture with nonunion                           | Diagnosis     | ICD-10-CM |
| S62.166P | Nondisplaced fracture of pisiform, unspecified wrist, subsequent encounter for fracture with malunion                           | Diagnosis     | ICD-10-CM |
| S62.166S | Nondisplaced fracture of pisiform, unspecified wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.17   | Fracture of trapezium [larger multangular]  | Diagnosis     | ICD-10-CM |
| S62.171  | Displaced fracture of trapezium [larger multangular], right wrist   | Diagnosis     | ICD-10-CM |
| S62.171A | Displaced fracture of trapezium [larger multangular], right wrist, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S62.171B | Displaced fracture of trapezium [larger multangular], right wrist, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S62.171D | Displaced fracture of trapezium [larger multangular], right wrist, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S62.171G | Displaced fracture of trapezium [larger multangular], right wrist, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.171K | Displaced fracture of trapezium [larger multangular], right wrist, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.171P | Displaced fracture of trapezium [larger multangular], right wrist, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.171S | Displaced fracture of trapezium [larger multangular], right wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.172  | Displaced fracture of trapezium [larger multangular], left wrist  | Diagnosis     | ICD-10-CM |
| S62.172A | Displaced fracture of trapezium [larger multangular], left wrist, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.172B | Displaced fracture of trapezium [larger multangular], left wrist, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.172D | Displaced fracture of trapezium [larger multangular], left wrist, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.172G | Displaced fracture of trapezium [larger multangular], left wrist, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.172K | Displaced fracture of trapezium [larger multangular], left wrist, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.172P | Displaced fracture of trapezium [larger multangular], left wrist, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.172S | Displaced fracture of trapezium [larger multangular], left wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.173  | Displaced fracture of trapezium [larger multangular], unspecified wrist   | Diagnosis     | ICD-10-CM |
| S62.173A | Displaced fracture of trapezium [larger multangular], unspecified wrist, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.173B | Displaced fracture of trapezium [larger multangular], unspecified wrist, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.173D | Displaced fracture of trapezium [larger multangular], unspecified wrist, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.173G | Displaced fracture of trapezium [larger multangular], unspecified wrist, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S62.173K | Displaced fracture of trapezium [larger multangular], unspecified wrist, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S62.173P | Displaced fracture of trapezium [larger multangular], unspecified wrist, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S62.173S | Displaced fracture of trapezium [larger multangular], unspecified wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.174  | Nondisplaced fracture of trapezium [larger multangular], right wrist   | Diagnosis     | ICD-10-CM |
| S62.174A | Nondisplaced fracture of trapezium [larger multangular], right wrist, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S62.174B | Nondisplaced fracture of trapezium [larger multangular], right wrist, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S62.174D | Nondisplaced fracture of trapezium [larger multangular], right wrist, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S62.174G | Nondisplaced fracture of trapezium [larger multangular], right wrist, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.174K | Nondisplaced fracture of trapezium [larger multangular], right wrist, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.174P | Nondisplaced fracture of trapezium [larger multangular], right wrist, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.174S | Nondisplaced fracture of trapezium [larger multangular], right wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.175  | Nondisplaced fracture of trapezium [larger multangular], left wrist  | Diagnosis     | ICD-10-CM |
| S62.175A | Nondisplaced fracture of trapezium [larger multangular], left wrist, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.175B | Nondisplaced fracture of trapezium [larger multangular], left wrist, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.175D | Nondisplaced fracture of trapezium [larger multangular], left wrist, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.175G | Nondisplaced fracture of trapezium [larger multangular], left wrist, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.175K | Nondisplaced fracture of trapezium [larger multangular], left wrist, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.175P | Nondisplaced fracture of trapezium [larger multangular], left wrist, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.175S | Nondisplaced fracture of trapezium [larger multangular], left wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.176  | Nondisplaced fracture of trapezium [larger multangular], unspecified wrist   | Diagnosis     | ICD-10-CM |
| S62.176A | Nondisplaced fracture of trapezium [larger multangular], unspecified wrist, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.176B | Nondisplaced fracture of trapezium [larger multangular], unspecified wrist, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.176D | Nondisplaced fracture of trapezium [larger multangular], unspecified wrist, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.176G | Nondisplaced fracture of trapezium [larger multangular], unspecified wrist, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.176K | Nondisplaced fracture of trapezium [larger multangular], unspecified wrist, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.176P | Nondisplaced fracture of trapezium [larger multangular], unspecified wrist, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.176S | Nondisplaced fracture of trapezium [larger multangular], unspecified wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.18   | Fracture of trapezoid [smaller multangular]  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.181  | Displaced fracture of trapezoid [smaller multangular], right wrist   | Diagnosis     | ICD-10-CM |
| S62.181A | Displaced fracture of trapezoid [smaller multangular], right wrist, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S62.181B | Displaced fracture of trapezoid [smaller multangular], right wrist, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S62.181D | Displaced fracture of trapezoid [smaller multangular], right wrist, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S62.181G | Displaced fracture of trapezoid [smaller multangular], right wrist, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.181K | Displaced fracture of trapezoid [smaller multangular], right wrist, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.181P | Displaced fracture of trapezoid [smaller multangular], right wrist, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.181S | Displaced fracture of trapezoid [smaller multangular], right wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.182  | Displaced fracture of trapezoid [smaller multangular], left wrist  | Diagnosis     | ICD-10-CM |
| S62.182A | Displaced fracture of trapezoid [smaller multangular], left wrist, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.182B | Displaced fracture of trapezoid [smaller multangular], left wrist, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.182D | Displaced fracture of trapezoid [smaller multangular], left wrist, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.182G | Displaced fracture of trapezoid [smaller multangular], left wrist, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.182K | Displaced fracture of trapezoid [smaller multangular], left wrist, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.182P | Displaced fracture of trapezoid [smaller multangular], left wrist, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.182S | Displaced fracture of trapezoid [smaller multangular], left wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.183  | Displaced fracture of trapezoid [smaller multangular], unspecified wrist   | Diagnosis     | ICD-10-CM |
| S62.183A | Displaced fracture of trapezoid [smaller multangular], unspecified wrist, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.183B | Displaced fracture of trapezoid [smaller multangular], unspecified wrist, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.183D | Displaced fracture of trapezoid [smaller multangular], unspecified wrist, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.183G | Displaced fracture of trapezoid [smaller multangular], unspecified wrist, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.183K | Displaced fracture of trapezoid [smaller multangular], unspecified wrist, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.183P | Displaced fracture of trapezoid [smaller multangular], unspecified wrist, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.183S | Displaced fracture of trapezoid [smaller multangular], unspecified wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.184  | Nondisplaced fracture of trapezoid [smaller multangular], right wrist  | Diagnosis     | ICD-10-CM |
| S62.184A | Nondisplaced fracture of trapezoid [smaller multangular], right wrist, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S62.184B | Nondisplaced fracture of trapezoid [smaller multangular], right wrist, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S62.184D | Nondisplaced fracture of trapezoid [smaller multangular], right wrist, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.184G | Nondisplaced fracture of trapezoid [smaller multangular], right wrist, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.184K | Nondisplaced fracture of trapezoid [smaller multangular], right wrist, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.184P | Nondisplaced fracture of trapezoid [smaller multangular], right wrist, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.184S | Nondisplaced fracture of trapezoid [smaller multangular], right wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.185  | Nondisplaced fracture of trapezoid [smaller multangular], left wrist  | Diagnosis     | ICD-10-CM |
| S62.185A | Nondisplaced fracture of trapezoid [smaller multangular], left wrist, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.185B | Nondisplaced fracture of trapezoid [smaller multangular], left wrist, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.185D | Nondisplaced fracture of trapezoid [smaller multangular], left wrist, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.185G | Nondisplaced fracture of trapezoid [smaller multangular], left wrist, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.185K | Nondisplaced fracture of trapezoid [smaller multangular], left wrist, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.185P | Nondisplaced fracture of trapezoid [smaller multangular], left wrist, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.185S | Nondisplaced fracture of trapezoid [smaller multangular], left wrist, sequela   | Diagnosis     | ICD-10-CM |
| S62.186  | Nondisplaced fracture of trapezoid [smaller multangular], unspecified wrist   | Diagnosis     | ICD-10-CM |
| S62.186A | Nondisplaced fracture of trapezoid [smaller multangular], unspecified wrist, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.186B | Nondisplaced fracture of trapezoid [smaller multangular], unspecified wrist, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.186D | Nondisplaced fracture of trapezoid [smaller multangular], unspecified wrist, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.186G | Nondisplaced fracture of trapezoid [smaller multangular], unspecified wrist, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.186K | Nondisplaced fracture of trapezoid [smaller multangular], unspecified wrist, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.186P | Nondisplaced fracture of trapezoid [smaller multangular], unspecified wrist, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.186S | Nondisplaced fracture of trapezoid [smaller multangular], unspecified wrist, sequela  | Diagnosis     | ICD-10-CM |
| S62.2    | Fracture of first metacarpal bone   | Diagnosis     | ICD-10-CM |
| S62.20   | Unspecified fracture of first metacarpal bone   | Diagnosis     | ICD-10-CM |
| S62.201  | Unspecified fracture of first metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.201A | Unspecified fracture of first metacarpal bone, right hand, initial encounter for closed fracture                                    | Diagnosis     | ICD-10-CM |
| S62.201B | Unspecified fracture of first metacarpal bone, right hand, initial encounter for open fracture                                      | Diagnosis     | ICD-10-CM |
| S62.201D | Unspecified fracture of first metacarpal bone, right hand, subsequent encounter for fracture with routine healing                   | Diagnosis     | ICD-10-CM |
| S62.201G | Unspecified fracture of first metacarpal bone, right hand, subsequent encounter for fracture with delayed healing                   | Diagnosis     | ICD-10-CM |
| S62.201K | Unspecified fracture of first metacarpal bone, right hand, subsequent encounter for fracture with nonunion                          | Diagnosis     | ICD-10-CM |
| S62.201P | Unspecified fracture of first metacarpal bone, right hand, subsequent encounter for fracture with malunion                          | Diagnosis     | ICD-10-CM |
| S62.201S | Unspecified fracture of first metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.202  | Unspecified fracture of first metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.202A | Unspecified fracture of first metacarpal bone, left hand, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.202B | Unspecified fracture of first metacarpal bone, left hand, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.202D | Unspecified fracture of first metacarpal bone, left hand, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.202G | Unspecified fracture of first metacarpal bone, left hand, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.202K | Unspecified fracture of first metacarpal bone, left hand, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.202P | Unspecified fracture of first metacarpal bone, left hand, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.202S | Unspecified fracture of first metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.209  | Unspecified fracture of first metacarpal bone, unspecified hand   | Diagnosis     | ICD-10-CM |
| S62.209A | Unspecified fracture of first metacarpal bone, unspecified hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.209B | Unspecified fracture of first metacarpal bone, unspecified hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.209D | Unspecified fracture of first metacarpal bone, unspecified hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.209G | Unspecified fracture of first metacarpal bone, unspecified hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.209K | Unspecified fracture of first metacarpal bone, unspecified hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.209P | Unspecified fracture of first metacarpal bone, unspecified hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.209S | Unspecified fracture of first metacarpal bone, unspecified hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.21   | Bennett's fracture  | Diagnosis     | ICD-10-CM |
| S62.211  | Bennett's fracture, right hand  | Diagnosis     | ICD-10-CM |
| S62.211A | Bennett's fracture, right hand, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S62.211B | Bennett's fracture, right hand, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S62.211D | Bennett's fracture, right hand, subsequent encounter for fracture with routine healing                                  | Diagnosis     | ICD-10-CM |
| S62.211G | Bennett's fracture, right hand, subsequent encounter for fracture with delayed healing                                  | Diagnosis     | ICD-10-CM |
| S62.211K | Bennett's fracture, right hand, subsequent encounter for fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S62.211P | Bennett's fracture, right hand, subsequent encounter for fracture with malunion   | Diagnosis     | ICD-10-CM |
| S62.211S | Bennett's fracture, right hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.212  | Bennett's fracture, left hand   | Diagnosis     | ICD-10-CM |
| S62.212A | Bennett's fracture, left hand, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S62.212B | Bennett's fracture, left hand, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S62.212D | Bennett's fracture, left hand, subsequent encounter for fracture with routine healing                                   | Diagnosis     | ICD-10-CM |
| S62.212G | Bennett's fracture, left hand, subsequent encounter for fracture with delayed healing                                   | Diagnosis     | ICD-10-CM |
| S62.212K | Bennett's fracture, left hand, subsequent encounter for fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S62.212P | Bennett's fracture, left hand, subsequent encounter for fracture with malunion  | Diagnosis     | ICD-10-CM |
| S62.212S | Bennett's fracture, left hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.213  | Bennett's fracture, unspecified hand  | Diagnosis     | ICD-10-CM |
| S62.213A | Bennett's fracture, unspecified hand, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S62.213B | Bennett's fracture, unspecified hand, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S62.213D | Bennett's fracture, unspecified hand, subsequent encounter for fracture with routine healing                            | Diagnosis     | ICD-10-CM |
| S62.213G | Bennett's fracture, unspecified hand, subsequent encounter for fracture with delayed healing                            | Diagnosis     | ICD-10-CM |
| S62.213K | Bennett's fracture, unspecified hand, subsequent encounter for fracture with nonunion                                   | Diagnosis     | ICD-10-CM |
| S62.213P | Bennett's fracture, unspecified hand, subsequent encounter for fracture with malunion                                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.213S | Bennett's fracture, unspecified hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.22   | Rolando's fracture   | Diagnosis     | ICD-10-CM |
| S62.221  | Displaced Rolando's fracture, right hand   | Diagnosis     | ICD-10-CM |
| S62.221A | Displaced Rolando's fracture, right hand, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S62.221B | Displaced Rolando's fracture, right hand, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S62.221D | Displaced Rolando's fracture, right hand, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S62.221G | Displaced Rolando's fracture, right hand, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.221K | Displaced Rolando's fracture, right hand, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.221P | Displaced Rolando's fracture, right hand, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.221S | Displaced Rolando's fracture, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.222  | Displaced Rolando's fracture, left hand  | Diagnosis     | ICD-10-CM |
| S62.222A | Displaced Rolando's fracture, left hand, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.222B | Displaced Rolando's fracture, left hand, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.222D | Displaced Rolando's fracture, left hand, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.222G | Displaced Rolando's fracture, left hand, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.222K | Displaced Rolando's fracture, left hand, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.222P | Displaced Rolando's fracture, left hand, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.222S | Displaced Rolando's fracture, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.223  | Displaced Rolando's fracture, unspecified hand   | Diagnosis     | ICD-10-CM |
| S62.223A | Displaced Rolando's fracture, unspecified hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.223B | Displaced Rolando's fracture, unspecified hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.223D | Displaced Rolando's fracture, unspecified hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.223G | Displaced Rolando's fracture, unspecified hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.223K | Displaced Rolando's fracture, unspecified hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.223P | Displaced Rolando's fracture, unspecified hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.223S | Displaced Rolando's fracture, unspecified hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.224  | Nondisplaced Rolando's fracture, right hand  | Diagnosis     | ICD-10-CM |
| S62.224A | Nondisplaced Rolando's fracture, right hand, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S62.224B | Nondisplaced Rolando's fracture, right hand, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S62.224D | Nondisplaced Rolando's fracture, right hand, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S62.224G | Nondisplaced Rolando's fracture, right hand, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S62.224K | Nondisplaced Rolando's fracture, right hand, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S62.224P | Nondisplaced Rolando's fracture, right hand, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S62.224S | Nondisplaced Rolando's fracture, right hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.225  | Nondisplaced Rolando's fracture, left hand   | Diagnosis     | ICD-10-CM |
| S62.225A | Nondisplaced Rolando's fracture, left hand, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S62.225B | Nondisplaced Rolando's fracture, left hand, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.225D | Nondisplaced Rolando's fracture, left hand, subsequent encounter for fracture with routine healing                            | Diagnosis     | ICD-10-CM |
| S62.225G | Nondisplaced Rolando's fracture, left hand, subsequent encounter for fracture with delayed healing                            | Diagnosis     | ICD-10-CM |
| S62.225K | Nondisplaced Rolando's fracture, left hand, subsequent encounter for fracture with nonunion                                   | Diagnosis     | ICD-10-CM |
| S62.225P | Nondisplaced Rolando's fracture, left hand, subsequent encounter for fracture with malunion                                   | Diagnosis     | ICD-10-CM |
| S62.225S | Nondisplaced Rolando's fracture, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.226  | Nondisplaced Rolando's fracture, unspecified hand   | Diagnosis     | ICD-10-CM |
| S62.226A | Nondisplaced Rolando's fracture, unspecified hand, initial encounter for closed fracture                                      | Diagnosis     | ICD-10-CM |
| S62.226B | Nondisplaced Rolando's fracture, unspecified hand, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S62.226D | Nondisplaced Rolando's fracture, unspecified hand, subsequent encounter for fracture with routine healing                     | Diagnosis     | ICD-10-CM |
| S62.226G | Nondisplaced Rolando's fracture, unspecified hand, subsequent encounter for fracture with delayed healing                     | Diagnosis     | ICD-10-CM |
| S62.226K | Nondisplaced Rolando's fracture, unspecified hand, subsequent encounter for fracture with nonunion                            | Diagnosis     | ICD-10-CM |
| S62.226P | Nondisplaced Rolando's fracture, unspecified hand, subsequent encounter for fracture with malunion                            | Diagnosis     | ICD-10-CM |
| S62.226S | Nondisplaced Rolando's fracture, unspecified hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.23   | Other fracture of base of first metacarpal bone   | Diagnosis     | ICD-10-CM |
| S62.231  | Other displaced fracture of base of first metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.231A | Other displaced fracture of base of first metacarpal bone, right hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.231B | Other displaced fracture of base of first metacarpal bone, right hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.231D | Other displaced fracture of base of first metacarpal bone, right hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.231G | Other displaced fracture of base of first metacarpal bone, right hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.231K | Other displaced fracture of base of first metacarpal bone, right hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.231P | Other displaced fracture of base of first metacarpal bone, right hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.231S | Other displaced fracture of base of first metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.232  | Other displaced fracture of base of first metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.232A | Other displaced fracture of base of first metacarpal bone, left hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.232B | Other displaced fracture of base of first metacarpal bone, left hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.232D | Other displaced fracture of base of first metacarpal bone, left hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.232G | Other displaced fracture of base of first metacarpal bone, left hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.232K | Other displaced fracture of base of first metacarpal bone, left hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.232P | Other displaced fracture of base of first metacarpal bone, left hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.232S | Other displaced fracture of base of first metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.233  | Other displaced fracture of base of first metacarpal bone, unspecified hand  | Diagnosis     | ICD-10-CM |
| S62.233A | Other displaced fracture of base of first metacarpal bone, unspecified hand, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S62.233B | Other displaced fracture of base of first metacarpal bone, unspecified hand, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S62.233D | Other displaced fracture of base of first metacarpal bone, unspecified hand, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S62.233G | Other displaced fracture of base of first metacarpal bone, unspecified hand, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S62.233K | Other displaced fracture of base of first metacarpal bone, unspecified hand, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S62.233P | Other displaced fracture of base of first metacarpal bone, unspecified hand, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S62.233S | Other displaced fracture of base of first metacarpal bone, unspecified hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.234  | Other nondisplaced fracture of base of first metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.234A | Other nondisplaced fracture of base of first metacarpal bone, right hand, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S62.234B | Other nondisplaced fracture of base of first metacarpal bone, right hand, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S62.234D | Other nondisplaced fracture of base of first metacarpal bone, right hand, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S62.234G | Other nondisplaced fracture of base of first metacarpal bone, right hand, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.234K | Other nondisplaced fracture of base of first metacarpal bone, right hand, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.234P | Other nondisplaced fracture of base of first metacarpal bone, right hand, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.234S | Other nondisplaced fracture of base of first metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.235  | Other nondisplaced fracture of base of first metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.235A | Other nondisplaced fracture of base of first metacarpal bone, left hand, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.235B | Other nondisplaced fracture of base of first metacarpal bone, left hand, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.235D | Other nondisplaced fracture of base of first metacarpal bone, left hand, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.235G | Other nondisplaced fracture of base of first metacarpal bone, left hand, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.235K | Other nondisplaced fracture of base of first metacarpal bone, left hand, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.235P | Other nondisplaced fracture of base of first metacarpal bone, left hand, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.235S | Other nondisplaced fracture of base of first metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.236  | Other nondisplaced fracture of base of first metacarpal bone, unspecified hand   | Diagnosis     | ICD-10-CM |
| S62.236A | Other nondisplaced fracture of base of first metacarpal bone, unspecified hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.236B | Other nondisplaced fracture of base of first metacarpal bone, unspecified hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.236D | Other nondisplaced fracture of base of first metacarpal bone, unspecified hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.236G | Other nondisplaced fracture of base of first metacarpal bone, unspecified hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.236K | Other nondisplaced fracture of base of first metacarpal bone, unspecified hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.236P | Other nondisplaced fracture of base of first metacarpal bone, unspecified hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.236S | Other nondisplaced fracture of base of first metacarpal bone, unspecified hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.24   | Fracture of shaft of first metacarpal bone   | Diagnosis     | ICD-10-CM |
| S62.241  | Displaced fracture of shaft of first metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.241A | Displaced fracture of shaft of first metacarpal bone, right hand, initial encounter for closed fracture                                | Diagnosis     | ICD-10-CM |
| S62.241B | Displaced fracture of shaft of first metacarpal bone, right hand, initial encounter for open fracture                                  | Diagnosis     | ICD-10-CM |
| S62.241D | Displaced fracture of shaft of first metacarpal bone, right hand, subsequent encounter for fracture with routine healing               | Diagnosis     | ICD-10-CM |
| S62.241G | Displaced fracture of shaft of first metacarpal bone, right hand, subsequent encounter for fracture with delayed healing               | Diagnosis     | ICD-10-CM |
| S62.241K | Displaced fracture of shaft of first metacarpal bone, right hand, subsequent encounter for fracture with nonunion                      | Diagnosis     | ICD-10-CM |
| S62.241P | Displaced fracture of shaft of first metacarpal bone, right hand, subsequent encounter for fracture with malunion                      | Diagnosis     | ICD-10-CM |
| S62.241S | Displaced fracture of shaft of first metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.242  | Displaced fracture of shaft of first metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.242A | Displaced fracture of shaft of first metacarpal bone, left hand, initial encounter for closed fracture                                 | Diagnosis     | ICD-10-CM |
| S62.242B | Displaced fracture of shaft of first metacarpal bone, left hand, initial encounter for open fracture                                   | Diagnosis     | ICD-10-CM |
| S62.242D | Displaced fracture of shaft of first metacarpal bone, left hand, subsequent encounter for fracture with routine healing                | Diagnosis     | ICD-10-CM |
| S62.242G | Displaced fracture of shaft of first metacarpal bone, left hand, subsequent encounter for fracture with delayed healing                | Diagnosis     | ICD-10-CM |
| S62.242K | Displaced fracture of shaft of first metacarpal bone, left hand, subsequent encounter for fracture with nonunion                       | Diagnosis     | ICD-10-CM |
| S62.242P | Displaced fracture of shaft of first metacarpal bone, left hand, subsequent encounter for fracture with malunion                       | Diagnosis     | ICD-10-CM |
| S62.242S | Displaced fracture of shaft of first metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.243  | Displaced fracture of shaft of first metacarpal bone, unspecified hand   | Diagnosis     | ICD-10-CM |
| S62.243A | Displaced fracture of shaft of first metacarpal bone, unspecified hand, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S62.243B | Displaced fracture of shaft of first metacarpal bone, unspecified hand, initial encounter for open fracture                            | Diagnosis     | ICD-10-CM |
| S62.243D | Displaced fracture of shaft of first metacarpal bone, unspecified hand, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S62.243G | Displaced fracture of shaft of first metacarpal bone, unspecified hand, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S62.243K | Displaced fracture of shaft of first metacarpal bone, unspecified hand, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S62.243P | Displaced fracture of shaft of first metacarpal bone, unspecified hand, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S62.243S | Displaced fracture of shaft of first metacarpal bone, unspecified hand, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.244  | Nondisplaced fracture of shaft of first metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.244A | Nondisplaced fracture of shaft of first metacarpal bone, right hand, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S62.244B | Nondisplaced fracture of shaft of first metacarpal bone, right hand, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S62.244D | Nondisplaced fracture of shaft of first metacarpal bone, right hand, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S62.244G | Nondisplaced fracture of shaft of first metacarpal bone, right hand, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.244K | Nondisplaced fracture of shaft of first metacarpal bone, right hand, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.244P | Nondisplaced fracture of shaft of first metacarpal bone, right hand, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.244S | Nondisplaced fracture of shaft of first metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.245  | Nondisplaced fracture of shaft of first metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.245A | Nondisplaced fracture of shaft of first metacarpal bone, left hand, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.245B | Nondisplaced fracture of shaft of first metacarpal bone, left hand, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.245D | Nondisplaced fracture of shaft of first metacarpal bone, left hand, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.245G | Nondisplaced fracture of shaft of first metacarpal bone, left hand, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.245K | Nondisplaced fracture of shaft of first metacarpal bone, left hand, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.245P | Nondisplaced fracture of shaft of first metacarpal bone, left hand, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.245S | Nondisplaced fracture of shaft of first metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.246  | Nondisplaced fracture of shaft of first metacarpal bone, unspecified hand   | Diagnosis     | ICD-10-CM |
| S62.246A | Nondisplaced fracture of shaft of first metacarpal bone, unspecified hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.246B | Nondisplaced fracture of shaft of first metacarpal bone, unspecified hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.246D | Nondisplaced fracture of shaft of first metacarpal bone, unspecified hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.246G | Nondisplaced fracture of shaft of first metacarpal bone, unspecified hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.246K | Nondisplaced fracture of shaft of first metacarpal bone, unspecified hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.246P | Nondisplaced fracture of shaft of first metacarpal bone, unspecified hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.246S | Nondisplaced fracture of shaft of first metacarpal bone, unspecified hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.25   | Fracture of neck of first metacarpal bone   | Diagnosis     | ICD-10-CM |
| S62.251  | Displaced fracture of neck of first metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.251A | Displaced fracture of neck of first metacarpal bone, right hand, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S62.251B | Displaced fracture of neck of first metacarpal bone, right hand, initial encounter for open fracture                              | Diagnosis     | ICD-10-CM |
| S62.251D | Displaced fracture of neck of first metacarpal bone, right hand, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.251G | Displaced fracture of neck of first metacarpal bone, right hand, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.251K | Displaced fracture of neck of first metacarpal bone, right hand, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.251P | Displaced fracture of neck of first metacarpal bone, right hand, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.251S | Displaced fracture of neck of first metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.252  | Displaced fracture of neck of first metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.252A | Displaced fracture of neck of first metacarpal bone, left hand, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.252B | Displaced fracture of neck of first metacarpal bone, left hand, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.252D | Displaced fracture of neck of first metacarpal bone, left hand, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.252G | Displaced fracture of neck of first metacarpal bone, left hand, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.252K | Displaced fracture of neck of first metacarpal bone, left hand, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.252P | Displaced fracture of neck of first metacarpal bone, left hand, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.252S | Displaced fracture of neck of first metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.253  | Displaced fracture of neck of first metacarpal bone, unspecified hand   | Diagnosis     | ICD-10-CM |
| S62.253A | Displaced fracture of neck of first metacarpal bone, unspecified hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.253B | Displaced fracture of neck of first metacarpal bone, unspecified hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.253D | Displaced fracture of neck of first metacarpal bone, unspecified hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.253G | Displaced fracture of neck of first metacarpal bone, unspecified hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.253K | Displaced fracture of neck of first metacarpal bone, unspecified hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.253P | Displaced fracture of neck of first metacarpal bone, unspecified hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.253S | Displaced fracture of neck of first metacarpal bone, unspecified hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.254  | Nondisplaced fracture of neck of first metacarpal bone, right hand  | Diagnosis     | ICD-10-CM |
| S62.254A | Nondisplaced fracture of neck of first metacarpal bone, right hand, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S62.254B | Nondisplaced fracture of neck of first metacarpal bone, right hand, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S62.254D | Nondisplaced fracture of neck of first metacarpal bone, right hand, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S62.254G | Nondisplaced fracture of neck of first metacarpal bone, right hand, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S62.254K | Nondisplaced fracture of neck of first metacarpal bone, right hand, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S62.254P | Nondisplaced fracture of neck of first metacarpal bone, right hand, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S62.254S | Nondisplaced fracture of neck of first metacarpal bone, right hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.255  | Nondisplaced fracture of neck of first metacarpal bone, left hand   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.255A | Nondisplaced fracture of neck of first metacarpal bone, left hand, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.255B | Nondisplaced fracture of neck of first metacarpal bone, left hand, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.255D | Nondisplaced fracture of neck of first metacarpal bone, left hand, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.255G | Nondisplaced fracture of neck of first metacarpal bone, left hand, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.255K | Nondisplaced fracture of neck of first metacarpal bone, left hand, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.255P | Nondisplaced fracture of neck of first metacarpal bone, left hand, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.255S | Nondisplaced fracture of neck of first metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.256  | Nondisplaced fracture of neck of first metacarpal bone, unspecified hand   | Diagnosis     | ICD-10-CM |
| S62.256A | Nondisplaced fracture of neck of first metacarpal bone, unspecified hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.256B | Nondisplaced fracture of neck of first metacarpal bone, unspecified hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.256D | Nondisplaced fracture of neck of first metacarpal bone, unspecified hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.256G | Nondisplaced fracture of neck of first metacarpal bone, unspecified hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.256K | Nondisplaced fracture of neck of first metacarpal bone, unspecified hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.256P | Nondisplaced fracture of neck of first metacarpal bone, unspecified hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.256S | Nondisplaced fracture of neck of first metacarpal bone, unspecified hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.29   | Other fracture of first metacarpal bone  | Diagnosis     | ICD-10-CM |
| S62.291  | Other fracture of first metacarpal bone, right hand  | Diagnosis     | ICD-10-CM |
| S62.291A | Other fracture of first metacarpal bone, right hand, initial encounter for closed fracture                                       | Diagnosis     | ICD-10-CM |
| S62.291B | Other fracture of first metacarpal bone, right hand, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S62.291D | Other fracture of first metacarpal bone, right hand, subsequent encounter for fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S62.291G | Other fracture of first metacarpal bone, right hand, subsequent encounter for fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S62.291K | Other fracture of first metacarpal bone, right hand, subsequent encounter for fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S62.291P | Other fracture of first metacarpal bone, right hand, subsequent encounter for fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S62.291S | Other fracture of first metacarpal bone, right hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.292  | Other fracture of first metacarpal bone, left hand   | Diagnosis     | ICD-10-CM |
| S62.292A | Other fracture of first metacarpal bone, left hand, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S62.292B | Other fracture of first metacarpal bone, left hand, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S62.292D | Other fracture of first metacarpal bone, left hand, subsequent encounter for fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S62.292G | Other fracture of first metacarpal bone, left hand, subsequent encounter for fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S62.292K | Other fracture of first metacarpal bone, left hand, subsequent encounter for fracture with nonunion                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.292P | Other fracture of first metacarpal bone, left hand, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S62.292S | Other fracture of first metacarpal bone, left hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.299  | Other fracture of first metacarpal bone, unspecified hand  | Diagnosis     | ICD-10-CM |
| S62.299A | Other fracture of first metacarpal bone, unspecified hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.299B | Other fracture of first metacarpal bone, unspecified hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.299D | Other fracture of first metacarpal bone, unspecified hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.299G | Other fracture of first metacarpal bone, unspecified hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.299K | Other fracture of first metacarpal bone, unspecified hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.299P | Other fracture of first metacarpal bone, unspecified hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.299S | Other fracture of first metacarpal bone, unspecified hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.3    | Fracture of other and unspecified metacarpal bone  | Diagnosis     | ICD-10-CM |
| S62.30   | Unspecified fracture of other metacarpal bone  | Diagnosis     | ICD-10-CM |
| S62.300  | Unspecified fracture of second metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.300A | Unspecified fracture of second metacarpal bone, right hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.300B | Unspecified fracture of second metacarpal bone, right hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.300D | Unspecified fracture of second metacarpal bone, right hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.300G | Unspecified fracture of second metacarpal bone, right hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.300K | Unspecified fracture of second metacarpal bone, right hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.300P | Unspecified fracture of second metacarpal bone, right hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.300S | Unspecified fracture of second metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.301  | Unspecified fracture of second metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.301A | Unspecified fracture of second metacarpal bone, left hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.301B | Unspecified fracture of second metacarpal bone, left hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.301D | Unspecified fracture of second metacarpal bone, left hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.301G | Unspecified fracture of second metacarpal bone, left hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.301K | Unspecified fracture of second metacarpal bone, left hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.301P | Unspecified fracture of second metacarpal bone, left hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.301S | Unspecified fracture of second metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.302  | Unspecified fracture of third metacarpal bone, right hand  | Diagnosis     | ICD-10-CM |
| S62.302A | Unspecified fracture of third metacarpal bone, right hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.302B | Unspecified fracture of third metacarpal bone, right hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.302D | Unspecified fracture of third metacarpal bone, right hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.302G | Unspecified fracture of third metacarpal bone, right hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.302K | Unspecified fracture of third metacarpal bone, right hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.302P | Unspecified fracture of third metacarpal bone, right hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.302S | Unspecified fracture of third metacarpal bone, right hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.303  | Unspecified fracture of third metacarpal bone, left hand   | Diagnosis     | ICD-10-CM |
| S62.303A | Unspecified fracture of third metacarpal bone, left hand, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S62.303B | Unspecified fracture of third metacarpal bone, left hand, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S62.303D | Unspecified fracture of third metacarpal bone, left hand, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S62.303G | Unspecified fracture of third metacarpal bone, left hand, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S62.303K | Unspecified fracture of third metacarpal bone, left hand, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S62.303P | Unspecified fracture of third metacarpal bone, left hand, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |
| S62.303S | Unspecified fracture of third metacarpal bone, left hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.304  | Unspecified fracture of fourth metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.304A | Unspecified fracture of fourth metacarpal bone, right hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.304B | Unspecified fracture of fourth metacarpal bone, right hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.304D | Unspecified fracture of fourth metacarpal bone, right hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.304G | Unspecified fracture of fourth metacarpal bone, right hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.304K | Unspecified fracture of fourth metacarpal bone, right hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.304P | Unspecified fracture of fourth metacarpal bone, right hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.304S | Unspecified fracture of fourth metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.305  | Unspecified fracture of fourth metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.305A | Unspecified fracture of fourth metacarpal bone, left hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.305B | Unspecified fracture of fourth metacarpal bone, left hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.305D | Unspecified fracture of fourth metacarpal bone, left hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.305G | Unspecified fracture of fourth metacarpal bone, left hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.305K | Unspecified fracture of fourth metacarpal bone, left hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.305P | Unspecified fracture of fourth metacarpal bone, left hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.305S | Unspecified fracture of fourth metacarpal bone, left hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.306  | Unspecified fracture of fifth metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.306A | Unspecified fracture of fifth metacarpal bone, right hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.306B | Unspecified fracture of fifth metacarpal bone, right hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.306D | Unspecified fracture of fifth metacarpal bone, right hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.306G | Unspecified fracture of fifth metacarpal bone, right hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.306K | Unspecified fracture of fifth metacarpal bone, right hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.306P | Unspecified fracture of fifth metacarpal bone, right hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.306S | Unspecified fracture of fifth metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.307  | Unspecified fracture of fifth metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.307A | Unspecified fracture of fifth metacarpal bone, left hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.307B | Unspecified fracture of fifth metacarpal bone, left hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.307D | Unspecified fracture of fifth metacarpal bone, left hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.307G | Unspecified fracture of fifth metacarpal bone, left hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.307K | Unspecified fracture of fifth metacarpal bone, left hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.307P | Unspecified fracture of fifth metacarpal bone, left hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.307S | Unspecified fracture of fifth metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.308  | Unspecified fracture of other metacarpal bone   | Diagnosis     | ICD-10-CM |
| S62.308A | Unspecified fracture of other metacarpal bone, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S62.308B | Unspecified fracture of other metacarpal bone, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S62.308D | Unspecified fracture of other metacarpal bone, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S62.308G | Unspecified fracture of other metacarpal bone, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S62.308K | Unspecified fracture of other metacarpal bone, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S62.308P | Unspecified fracture of other metacarpal bone, subsequent encounter for fracture with malunion                    | Diagnosis     | ICD-10-CM |
| S62.308S | Unspecified fracture of other metacarpal bone, sequela  | Diagnosis     | ICD-10-CM |
| S62.309  | Unspecified fracture of unspecified metacarpal bone   | Diagnosis     | ICD-10-CM |
| S62.309A | Unspecified fracture of unspecified metacarpal bone, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S62.309B | Unspecified fracture of unspecified metacarpal bone, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S62.309D | Unspecified fracture of unspecified metacarpal bone, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S62.309G | Unspecified fracture of unspecified metacarpal bone, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.309K | Unspecified fracture of unspecified metacarpal bone, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.309P | Unspecified fracture of unspecified metacarpal bone, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.309S | Unspecified fracture of unspecified metacarpal bone, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.31   | Displaced fracture of base of other metacarpal bone  | Diagnosis     | ICD-10-CM |
| S62.310  | Displaced fracture of base of second metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.310A | Displaced fracture of base of second metacarpal bone, right hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.310B | Displaced fracture of base of second metacarpal bone, right hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.310D | Displaced fracture of base of second metacarpal bone, right hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.310G | Displaced fracture of base of second metacarpal bone, right hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.310K | Displaced fracture of base of second metacarpal bone, right hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.310P | Displaced fracture of base of second metacarpal bone, right hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.310S | Displaced fracture of base of second metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.311  | Displaced fracture of base of second metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.311A | Displaced fracture of base of second metacarpal bone, left hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.311B | Displaced fracture of base of second metacarpal bone, left hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.311D | Displaced fracture of base of second metacarpal bone, left hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.311G | Displaced fracture of base of second metacarpal bone, left hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.311K | Displaced fracture of base of second metacarpal bone, left hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.311P | Displaced fracture of base of second metacarpal bone, left hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.311S | Displaced fracture of base of second metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.312  | Displaced fracture of base of third metacarpal bone, right hand  | Diagnosis     | ICD-10-CM |
| S62.312A | Displaced fracture of base of third metacarpal bone, right hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.312B | Displaced fracture of base of third metacarpal bone, right hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.312D | Displaced fracture of base of third metacarpal bone, right hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.312G | Displaced fracture of base of third metacarpal bone, right hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.312K | Displaced fracture of base of third metacarpal bone, right hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.312P | Displaced fracture of base of third metacarpal bone, right hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.312S | Displaced fracture of base of third metacarpal bone, right hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.313  | Displaced fracture of base of third metacarpal bone, left hand   | Diagnosis     | ICD-10-CM |
| S62.313A | Displaced fracture of base of third metacarpal bone, left hand, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S62.313B | Displaced fracture of base of third metacarpal bone, left hand, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S62.313D | Displaced fracture of base of third metacarpal bone, left hand, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.313G | Displaced fracture of base of third metacarpal bone, left hand, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S62.313K | Displaced fracture of base of third metacarpal bone, left hand, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S62.313P | Displaced fracture of base of third metacarpal bone, left hand, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |
| S62.313S | Displaced fracture of base of third metacarpal bone, left hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.314  | Displaced fracture of base of fourth metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.314A | Displaced fracture of base of fourth metacarpal bone, right hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.314B | Displaced fracture of base of fourth metacarpal bone, right hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.314D | Displaced fracture of base of fourth metacarpal bone, right hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.314G | Displaced fracture of base of fourth metacarpal bone, right hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.314K | Displaced fracture of base of fourth metacarpal bone, right hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.314P | Displaced fracture of base of fourth metacarpal bone, right hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.314S | Displaced fracture of base of fourth metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.315  | Displaced fracture of base of fourth metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.315A | Displaced fracture of base of fourth metacarpal bone, left hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.315B | Displaced fracture of base of fourth metacarpal bone, left hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.315D | Displaced fracture of base of fourth metacarpal bone, left hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.315G | Displaced fracture of base of fourth metacarpal bone, left hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.315K | Displaced fracture of base of fourth metacarpal bone, left hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.315P | Displaced fracture of base of fourth metacarpal bone, left hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.315S | Displaced fracture of base of fourth metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.316  | Displaced fracture of base of fifth metacarpal bone, right hand  | Diagnosis     | ICD-10-CM |
| S62.316A | Displaced fracture of base of fifth metacarpal bone, right hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.316B | Displaced fracture of base of fifth metacarpal bone, right hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.316D | Displaced fracture of base of fifth metacarpal bone, right hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.316G | Displaced fracture of base of fifth metacarpal bone, right hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.316K | Displaced fracture of base of fifth metacarpal bone, right hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.316P | Displaced fracture of base of fifth metacarpal bone, right hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.316S | Displaced fracture of base of fifth metacarpal bone, right hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.317  | Displaced fracture of base of fifth metacarpal bone, left hand   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.317A | Displaced fracture of base of fifth metacarpal bone, left hand, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S62.317B | Displaced fracture of base of fifth metacarpal bone, left hand, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S62.317D | Displaced fracture of base of fifth metacarpal bone, left hand, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S62.317G | Displaced fracture of base of fifth metacarpal bone, left hand, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S62.317K | Displaced fracture of base of fifth metacarpal bone, left hand, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S62.317P | Displaced fracture of base of fifth metacarpal bone, left hand, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S62.317S | Displaced fracture of base of fifth metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.318  | Displaced fracture of base of other metacarpal bone   | Diagnosis     | ICD-10-CM |
| S62.318A | Displaced fracture of base of other metacarpal bone, initial encounter for closed fracture                                | Diagnosis     | ICD-10-CM |
| S62.318B | Displaced fracture of base of other metacarpal bone, initial encounter for open fracture                                  | Diagnosis     | ICD-10-CM |
| S62.318D | Displaced fracture of base of other metacarpal bone, subsequent encounter for fracture with routine healing               | Diagnosis     | ICD-10-CM |
| S62.318G | Displaced fracture of base of other metacarpal bone, subsequent encounter for fracture with delayed healing               | Diagnosis     | ICD-10-CM |
| S62.318K | Displaced fracture of base of other metacarpal bone, subsequent encounter for fracture with nonunion                      | Diagnosis     | ICD-10-CM |
| S62.318P | Displaced fracture of base of other metacarpal bone, subsequent encounter for fracture with malunion                      | Diagnosis     | ICD-10-CM |
| S62.318S | Displaced fracture of base of other metacarpal bone, sequela  | Diagnosis     | ICD-10-CM |
| S62.319  | Displaced fracture of base of unspecified metacarpal bone   | Diagnosis     | ICD-10-CM |
| S62.319A | Displaced fracture of base of unspecified metacarpal bone, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S62.319B | Displaced fracture of base of unspecified metacarpal bone, initial encounter for open fracture                            | Diagnosis     | ICD-10-CM |
| S62.319D | Displaced fracture of base of unspecified metacarpal bone, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S62.319G | Displaced fracture of base of unspecified metacarpal bone, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S62.319K | Displaced fracture of base of unspecified metacarpal bone, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S62.319P | Displaced fracture of base of unspecified metacarpal bone, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S62.319S | Displaced fracture of base of unspecified metacarpal bone, sequela  | Diagnosis     | ICD-10-CM |
| S62.32   | Displaced fracture of shaft of other metacarpal bone  | Diagnosis     | ICD-10-CM |
| S62.320  | Displaced fracture of shaft of second metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.320A | Displaced fracture of shaft of second metacarpal bone, right hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.320B | Displaced fracture of shaft of second metacarpal bone, right hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.320D | Displaced fracture of shaft of second metacarpal bone, right hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.320G | Displaced fracture of shaft of second metacarpal bone, right hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.320K | Displaced fracture of shaft of second metacarpal bone, right hand, subsequent encounter for fracture with nonunion       | Diagnosis     | ICD-10-CM |
| S62.320P | Displaced fracture of shaft of second metacarpal bone, right hand, subsequent encounter for fracture with malunion       | Diagnosis     | ICD-10-CM |
| S62.320S | Displaced fracture of shaft of second metacarpal bone, right hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.321  | Displaced fracture of shaft of second metacarpal bone, left hand   | Diagnosis     | ICD-10-CM |
| S62.321A | Displaced fracture of shaft of second metacarpal bone, left hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.321B | Displaced fracture of shaft of second metacarpal bone, left hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.321D | Displaced fracture of shaft of second metacarpal bone, left hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.321G | Displaced fracture of shaft of second metacarpal bone, left hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.321K | Displaced fracture of shaft of second metacarpal bone, left hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.321P | Displaced fracture of shaft of second metacarpal bone, left hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.321S | Displaced fracture of shaft of second metacarpal bone, left hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.322  | Displaced fracture of shaft of third metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.322A | Displaced fracture of shaft of third metacarpal bone, right hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.322B | Displaced fracture of shaft of third metacarpal bone, right hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.322D | Displaced fracture of shaft of third metacarpal bone, right hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.322G | Displaced fracture of shaft of third metacarpal bone, right hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.322K | Displaced fracture of shaft of third metacarpal bone, right hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.322P | Displaced fracture of shaft of third metacarpal bone, right hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.322S | Displaced fracture of shaft of third metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.323  | Displaced fracture of shaft of third metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.323A | Displaced fracture of shaft of third metacarpal bone, left hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.323B | Displaced fracture of shaft of third metacarpal bone, left hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.323D | Displaced fracture of shaft of third metacarpal bone, left hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.323G | Displaced fracture of shaft of third metacarpal bone, left hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.323K | Displaced fracture of shaft of third metacarpal bone, left hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.323P | Displaced fracture of shaft of third metacarpal bone, left hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.323S | Displaced fracture of shaft of third metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.324  | Displaced fracture of shaft of fourth metacarpal bone, right hand  | Diagnosis     | ICD-10-CM |
| S62.324A | Displaced fracture of shaft of fourth metacarpal bone, right hand, initial encounter for closed fracture                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.324B | Displaced fracture of shaft of fourth metacarpal bone, right hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.324D | Displaced fracture of shaft of fourth metacarpal bone, right hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.324G | Displaced fracture of shaft of fourth metacarpal bone, right hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.324K | Displaced fracture of shaft of fourth metacarpal bone, right hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.324P | Displaced fracture of shaft of fourth metacarpal bone, right hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.324S | Displaced fracture of shaft of fourth metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.325  | Displaced fracture of shaft of fourth metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.325A | Displaced fracture of shaft of fourth metacarpal bone, left hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.325B | Displaced fracture of shaft of fourth metacarpal bone, left hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.325D | Displaced fracture of shaft of fourth metacarpal bone, left hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.325G | Displaced fracture of shaft of fourth metacarpal bone, left hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.325K | Displaced fracture of shaft of fourth metacarpal bone, left hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.325P | Displaced fracture of shaft of fourth metacarpal bone, left hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.325S | Displaced fracture of shaft of fourth metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.326  | Displaced fracture of shaft of fifth metacarpal bone, right hand  | Diagnosis     | ICD-10-CM |
| S62.326A | Displaced fracture of shaft of fifth metacarpal bone, right hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.326B | Displaced fracture of shaft of fifth metacarpal bone, right hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.326D | Displaced fracture of shaft of fifth metacarpal bone, right hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.326G | Displaced fracture of shaft of fifth metacarpal bone, right hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.326K | Displaced fracture of shaft of fifth metacarpal bone, right hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.326P | Displaced fracture of shaft of fifth metacarpal bone, right hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.326S | Displaced fracture of shaft of fifth metacarpal bone, right hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.327  | Displaced fracture of shaft of fifth metacarpal bone, left hand   | Diagnosis     | ICD-10-CM |
| S62.327A | Displaced fracture of shaft of fifth metacarpal bone, left hand, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S62.327B | Displaced fracture of shaft of fifth metacarpal bone, left hand, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S62.327D | Displaced fracture of shaft of fifth metacarpal bone, left hand, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S62.327G | Displaced fracture of shaft of fifth metacarpal bone, left hand, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S62.327K | Displaced fracture of shaft of fifth metacarpal bone, left hand, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.327P | Displaced fracture of shaft of fifth metacarpal bone, left hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.327S | Displaced fracture of shaft of fifth metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.328  | Displaced fracture of shaft of other metacarpal bone   | Diagnosis     | ICD-10-CM |
| S62.328A | Displaced fracture of shaft of other metacarpal bone, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S62.328B | Displaced fracture of shaft of other metacarpal bone, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S62.328D | Displaced fracture of shaft of other metacarpal bone, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S62.328G | Displaced fracture of shaft of other metacarpal bone, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S62.328K | Displaced fracture of shaft of other metacarpal bone, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S62.328P | Displaced fracture of shaft of other metacarpal bone, subsequent encounter for fracture with malunion                    | Diagnosis     | ICD-10-CM |
| S62.328S | Displaced fracture of shaft of other metacarpal bone, sequela  | Diagnosis     | ICD-10-CM |
| S62.329  | Displaced fracture of shaft of unspecified metacarpal bone   | Diagnosis     | ICD-10-CM |
| S62.329A | Displaced fracture of shaft of unspecified metacarpal bone, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S62.329B | Displaced fracture of shaft of unspecified metacarpal bone, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S62.329D | Displaced fracture of shaft of unspecified metacarpal bone, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S62.329G | Displaced fracture of shaft of unspecified metacarpal bone, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.329K | Displaced fracture of shaft of unspecified metacarpal bone, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.329P | Displaced fracture of shaft of unspecified metacarpal bone, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.329S | Displaced fracture of shaft of unspecified metacarpal bone, sequela  | Diagnosis     | ICD-10-CM |
| S62.33   | Displaced fracture of neck of other metacarpal bone  | Diagnosis     | ICD-10-CM |
| S62.330  | Displaced fracture of neck of second metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.330A | Displaced fracture of neck of second metacarpal bone, right hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.330B | Displaced fracture of neck of second metacarpal bone, right hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.330D | Displaced fracture of neck of second metacarpal bone, right hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.330G | Displaced fracture of neck of second metacarpal bone, right hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.330K | Displaced fracture of neck of second metacarpal bone, right hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.330P | Displaced fracture of neck of second metacarpal bone, right hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.330S | Displaced fracture of neck of second metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.331  | Displaced fracture of neck of second metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.331A | Displaced fracture of neck of second metacarpal bone, left hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.331B | Displaced fracture of neck of second metacarpal bone, left hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.331D | Displaced fracture of neck of second metacarpal bone, left hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.331G | Displaced fracture of neck of second metacarpal bone, left hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.331K | Displaced fracture of neck of second metacarpal bone, left hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.331P | Displaced fracture of neck of second metacarpal bone, left hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.331S | Displaced fracture of neck of second metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.332  | Displaced fracture of neck of third metacarpal bone, right hand  | Diagnosis     | ICD-10-CM |
| S62.332A | Displaced fracture of neck of third metacarpal bone, right hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.332B | Displaced fracture of neck of third metacarpal bone, right hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.332D | Displaced fracture of neck of third metacarpal bone, right hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.332G | Displaced fracture of neck of third metacarpal bone, right hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.332K | Displaced fracture of neck of third metacarpal bone, right hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.332P | Displaced fracture of neck of third metacarpal bone, right hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.332S | Displaced fracture of neck of third metacarpal bone, right hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.333  | Displaced fracture of neck of third metacarpal bone, left hand   | Diagnosis     | ICD-10-CM |
| S62.333A | Displaced fracture of neck of third metacarpal bone, left hand, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S62.333B | Displaced fracture of neck of third metacarpal bone, left hand, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S62.333D | Displaced fracture of neck of third metacarpal bone, left hand, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S62.333G | Displaced fracture of neck of third metacarpal bone, left hand, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S62.333K | Displaced fracture of neck of third metacarpal bone, left hand, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S62.333P | Displaced fracture of neck of third metacarpal bone, left hand, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |
| S62.333S | Displaced fracture of neck of third metacarpal bone, left hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.334  | Displaced fracture of neck of fourth metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.334A | Displaced fracture of neck of fourth metacarpal bone, right hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.334B | Displaced fracture of neck of fourth metacarpal bone, right hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.334D | Displaced fracture of neck of fourth metacarpal bone, right hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.334G | Displaced fracture of neck of fourth metacarpal bone, right hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.334K | Displaced fracture of neck of fourth metacarpal bone, right hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.334P | Displaced fracture of neck of fourth metacarpal bone, right hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.334S | Displaced fracture of neck of fourth metacarpal bone, right hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.335  | Displaced fracture of neck of fourth metacarpal bone, left hand   | Diagnosis     | ICD-10-CM |
| S62.335A | Displaced fracture of neck of fourth metacarpal bone, left hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.335B | Displaced fracture of neck of fourth metacarpal bone, left hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.335D | Displaced fracture of neck of fourth metacarpal bone, left hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.335G | Displaced fracture of neck of fourth metacarpal bone, left hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.335K | Displaced fracture of neck of fourth metacarpal bone, left hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.335P | Displaced fracture of neck of fourth metacarpal bone, left hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.335S | Displaced fracture of neck of fourth metacarpal bone, left hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.336  | Displaced fracture of neck of fifth metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.336A | Displaced fracture of neck of fifth metacarpal bone, right hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.336B | Displaced fracture of neck of fifth metacarpal bone, right hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.336D | Displaced fracture of neck of fifth metacarpal bone, right hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.336G | Displaced fracture of neck of fifth metacarpal bone, right hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.336K | Displaced fracture of neck of fifth metacarpal bone, right hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.336P | Displaced fracture of neck of fifth metacarpal bone, right hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.336S | Displaced fracture of neck of fifth metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.337  | Displaced fracture of neck of fifth metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.337A | Displaced fracture of neck of fifth metacarpal bone, left hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.337B | Displaced fracture of neck of fifth metacarpal bone, left hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.337D | Displaced fracture of neck of fifth metacarpal bone, left hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.337G | Displaced fracture of neck of fifth metacarpal bone, left hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.337K | Displaced fracture of neck of fifth metacarpal bone, left hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.337P | Displaced fracture of neck of fifth metacarpal bone, left hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.337S | Displaced fracture of neck of fifth metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.338  | Displaced fracture of neck of other metacarpal bone   | Diagnosis     | ICD-10-CM |
| S62.338A | Displaced fracture of neck of other metacarpal bone, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S62.338B | Displaced fracture of neck of other metacarpal bone, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S62.338D | Displaced fracture of neck of other metacarpal bone, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S62.338G | Displaced fracture of neck of other metacarpal bone, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.338K | Displaced fracture of neck of other metacarpal bone, subsequent encounter for fracture with nonunion                        | Diagnosis     | ICD-10-CM |
| S62.338P | Displaced fracture of neck of other metacarpal bone, subsequent encounter for fracture with malunion                        | Diagnosis     | ICD-10-CM |
| S62.338S | Displaced fracture of neck of other metacarpal bone, sequela  | Diagnosis     | ICD-10-CM |
| S62.339  | Displaced fracture of neck of unspecified metacarpal bone   | Diagnosis     | ICD-10-CM |
| S62.339A | Displaced fracture of neck of unspecified metacarpal bone, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S62.339B | Displaced fracture of neck of unspecified metacarpal bone, initial encounter for open fracture                              | Diagnosis     | ICD-10-CM |
| S62.339D | Displaced fracture of neck of unspecified metacarpal bone, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S62.339G | Displaced fracture of neck of unspecified metacarpal bone, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S62.339K | Displaced fracture of neck of unspecified metacarpal bone, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S62.339P | Displaced fracture of neck of unspecified metacarpal bone, subsequent encounter for fracture with malunion                  | Diagnosis     | ICD-10-CM |
| S62.339S | Displaced fracture of neck of unspecified metacarpal bone, sequela  | Diagnosis     | ICD-10-CM |
| S62.34   | Nondisplaced fracture of base of other metacarpal bone  | Diagnosis     | ICD-10-CM |
| S62.340  | Nondisplaced fracture of base of second metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.340A | Nondisplaced fracture of base of second metacarpal bone, right hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.340B | Nondisplaced fracture of base of second metacarpal bone, right hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.340D | Nondisplaced fracture of base of second metacarpal bone, right hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.340G | Nondisplaced fracture of base of second metacarpal bone, right hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.340K | Nondisplaced fracture of base of second metacarpal bone, right hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.340P | Nondisplaced fracture of base of second metacarpal bone, right hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.340S | Nondisplaced fracture of base of second metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.341  | Nondisplaced fracture of base of second metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.341A | Nondisplaced fracture of base of second metacarpal bone, left hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.341B | Nondisplaced fracture of base of second metacarpal bone, left hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.341D | Nondisplaced fracture of base of second metacarpal bone, left hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.341G | Nondisplaced fracture of base of second metacarpal bone, left hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.341K | Nondisplaced fracture of base of second metacarpal bone, left hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.341P | Nondisplaced fracture of base of second metacarpal bone, left hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.341S | Nondisplaced fracture of base of second metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.342  | Nondisplaced fracture of base of third metacarpal bone, right hand  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.342A | Nondisplaced fracture of base of third metacarpal bone, right hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.342B | Nondisplaced fracture of base of third metacarpal bone, right hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.342D | Nondisplaced fracture of base of third metacarpal bone, right hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.342G | Nondisplaced fracture of base of third metacarpal bone, right hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.342K | Nondisplaced fracture of base of third metacarpal bone, right hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.342P | Nondisplaced fracture of base of third metacarpal bone, right hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.342S | Nondisplaced fracture of base of third metacarpal bone, right hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.343  | Nondisplaced fracture of base of third metacarpal bone, left hand   | Diagnosis     | ICD-10-CM |
| S62.343A | Nondisplaced fracture of base of third metacarpal bone, left hand, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S62.343B | Nondisplaced fracture of base of third metacarpal bone, left hand, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S62.343D | Nondisplaced fracture of base of third metacarpal bone, left hand, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S62.343G | Nondisplaced fracture of base of third metacarpal bone, left hand, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S62.343K | Nondisplaced fracture of base of third metacarpal bone, left hand, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S62.343P | Nondisplaced fracture of base of third metacarpal bone, left hand, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |
| S62.343S | Nondisplaced fracture of base of third metacarpal bone, left hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.344  | Nondisplaced fracture of base of fourth metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.344A | Nondisplaced fracture of base of fourth metacarpal bone, right hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.344B | Nondisplaced fracture of base of fourth metacarpal bone, right hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.344D | Nondisplaced fracture of base of fourth metacarpal bone, right hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.344G | Nondisplaced fracture of base of fourth metacarpal bone, right hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.344K | Nondisplaced fracture of base of fourth metacarpal bone, right hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.344P | Nondisplaced fracture of base of fourth metacarpal bone, right hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.344S | Nondisplaced fracture of base of fourth metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.345  | Nondisplaced fracture of base of fourth metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.345A | Nondisplaced fracture of base of fourth metacarpal bone, left hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.345B | Nondisplaced fracture of base of fourth metacarpal bone, left hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.345D | Nondisplaced fracture of base of fourth metacarpal bone, left hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.345G | Nondisplaced fracture of base of fourth metacarpal bone, left hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.345K | Nondisplaced fracture of base of fourth metacarpal bone, left hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.345P | Nondisplaced fracture of base of fourth metacarpal bone, left hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.345S | Nondisplaced fracture of base of fourth metacarpal bone, left hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.346  | Nondisplaced fracture of base of fifth metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.346A | Nondisplaced fracture of base of fifth metacarpal bone, right hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.346B | Nondisplaced fracture of base of fifth metacarpal bone, right hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.346D | Nondisplaced fracture of base of fifth metacarpal bone, right hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.346G | Nondisplaced fracture of base of fifth metacarpal bone, right hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.346K | Nondisplaced fracture of base of fifth metacarpal bone, right hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.346P | Nondisplaced fracture of base of fifth metacarpal bone, right hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.346S | Nondisplaced fracture of base of fifth metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.347  | Nondisplaced fracture of base of fifth metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.347A | Nondisplaced fracture of base of fifth metacarpal bone, left hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.347B | Nondisplaced fracture of base of fifth metacarpal bone, left hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.347D | Nondisplaced fracture of base of fifth metacarpal bone, left hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.347G | Nondisplaced fracture of base of fifth metacarpal bone, left hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.347K | Nondisplaced fracture of base of fifth metacarpal bone, left hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.347P | Nondisplaced fracture of base of fifth metacarpal bone, left hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.347S | Nondisplaced fracture of base of fifth metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.348  | Nondisplaced fracture of base of other metacarpal bone   | Diagnosis     | ICD-10-CM |
| S62.348A | Nondisplaced fracture of base of other metacarpal bone, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S62.348B | Nondisplaced fracture of base of other metacarpal bone, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S62.348D | Nondisplaced fracture of base of other metacarpal bone, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S62.348G | Nondisplaced fracture of base of other metacarpal bone, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S62.348K | Nondisplaced fracture of base of other metacarpal bone, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S62.348P | Nondisplaced fracture of base of other metacarpal bone, subsequent encounter for fracture with malunion                    | Diagnosis     | ICD-10-CM |
| S62.348S | Nondisplaced fracture of base of other metacarpal bone, sequela  | Diagnosis     | ICD-10-CM |
| S62.349  | Nondisplaced fracture of base of unspecified metacarpal bone   | Diagnosis     | ICD-10-CM |
| S62.349A | Nondisplaced fracture of base of unspecified metacarpal bone, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.349B | Nondisplaced fracture of base of unspecified metacarpal bone, initial encounter for open fracture                            | Diagnosis     | ICD-10-CM |
| S62.349D | Nondisplaced fracture of base of unspecified metacarpal bone, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S62.349G | Nondisplaced fracture of base of unspecified metacarpal bone, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S62.349K | Nondisplaced fracture of base of unspecified metacarpal bone, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S62.349P | Nondisplaced fracture of base of unspecified metacarpal bone, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S62.349S | Nondisplaced fracture of base of unspecified metacarpal bone, sequela  | Diagnosis     | ICD-10-CM |
| S62.35   | Nondisplaced fracture of shaft of other metacarpal bone  | Diagnosis     | ICD-10-CM |
| S62.350  | Nondisplaced fracture of shaft of second metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.350A | Nondisplaced fracture of shaft of second metacarpal bone, right hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.350B | Nondisplaced fracture of shaft of second metacarpal bone, right hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.350D | Nondisplaced fracture of shaft of second metacarpal bone, right hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.350G | Nondisplaced fracture of shaft of second metacarpal bone, right hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.350K | Nondisplaced fracture of shaft of second metacarpal bone, right hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.350P | Nondisplaced fracture of shaft of second metacarpal bone, right hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.350S | Nondisplaced fracture of shaft of second metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.351  | Nondisplaced fracture of shaft of second metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.351A | Nondisplaced fracture of shaft of second metacarpal bone, left hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.351B | Nondisplaced fracture of shaft of second metacarpal bone, left hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.351D | Nondisplaced fracture of shaft of second metacarpal bone, left hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.351G | Nondisplaced fracture of shaft of second metacarpal bone, left hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.351K | Nondisplaced fracture of shaft of second metacarpal bone, left hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.351P | Nondisplaced fracture of shaft of second metacarpal bone, left hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.351S | Nondisplaced fracture of shaft of second metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.352  | Nondisplaced fracture of shaft of third metacarpal bone, right hand  | Diagnosis     | ICD-10-CM |
| S62.352A | Nondisplaced fracture of shaft of third metacarpal bone, right hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.352B | Nondisplaced fracture of shaft of third metacarpal bone, right hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.352D | Nondisplaced fracture of shaft of third metacarpal bone, right hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.352G | Nondisplaced fracture of shaft of third metacarpal bone, right hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.352K | Nondisplaced fracture of shaft of third metacarpal bone, right hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.352P | Nondisplaced fracture of shaft of third metacarpal bone, right hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.352S | Nondisplaced fracture of shaft of third metacarpal bone, right hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.353  | Nondisplaced fracture of shaft of third metacarpal bone, left hand   | Diagnosis     | ICD-10-CM |
| S62.353A | Nondisplaced fracture of shaft of third metacarpal bone, left hand, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S62.353B | Nondisplaced fracture of shaft of third metacarpal bone, left hand, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S62.353D | Nondisplaced fracture of shaft of third metacarpal bone, left hand, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S62.353G | Nondisplaced fracture of shaft of third metacarpal bone, left hand, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S62.353K | Nondisplaced fracture of shaft of third metacarpal bone, left hand, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S62.353P | Nondisplaced fracture of shaft of third metacarpal bone, left hand, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |
| S62.353S | Nondisplaced fracture of shaft of third metacarpal bone, left hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.354  | Nondisplaced fracture of shaft of fourth metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.354A | Nondisplaced fracture of shaft of fourth metacarpal bone, right hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.354B | Nondisplaced fracture of shaft of fourth metacarpal bone, right hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.354D | Nondisplaced fracture of shaft of fourth metacarpal bone, right hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.354G | Nondisplaced fracture of shaft of fourth metacarpal bone, right hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.354K | Nondisplaced fracture of shaft of fourth metacarpal bone, right hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.354P | Nondisplaced fracture of shaft of fourth metacarpal bone, right hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.354S | Nondisplaced fracture of shaft of fourth metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.355  | Nondisplaced fracture of shaft of fourth metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.355A | Nondisplaced fracture of shaft of fourth metacarpal bone, left hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.355B | Nondisplaced fracture of shaft of fourth metacarpal bone, left hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.355D | Nondisplaced fracture of shaft of fourth metacarpal bone, left hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.355G | Nondisplaced fracture of shaft of fourth metacarpal bone, left hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.355K | Nondisplaced fracture of shaft of fourth metacarpal bone, left hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.355P | Nondisplaced fracture of shaft of fourth metacarpal bone, left hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.355S | Nondisplaced fracture of shaft of fourth metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.356  | Nondisplaced fracture of shaft of fifth metacarpal bone, right hand  | Diagnosis     | ICD-10-CM |
| S62.356A | Nondisplaced fracture of shaft of fifth metacarpal bone, right hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.356B | Nondisplaced fracture of shaft of fifth metacarpal bone, right hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.356D | Nondisplaced fracture of shaft of fifth metacarpal bone, right hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.356G | Nondisplaced fracture of shaft of fifth metacarpal bone, right hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.356K | Nondisplaced fracture of shaft of fifth metacarpal bone, right hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.356P | Nondisplaced fracture of shaft of fifth metacarpal bone, right hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.356S | Nondisplaced fracture of shaft of fifth metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.357  | Nondisplaced fracture of shaft of fifth metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.357A | Nondisplaced fracture of shaft of fifth metacarpal bone, left hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.357B | Nondisplaced fracture of shaft of fifth metacarpal bone, left hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.357D | Nondisplaced fracture of shaft of fifth metacarpal bone, left hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.357G | Nondisplaced fracture of shaft of fifth metacarpal bone, left hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.357K | Nondisplaced fracture of shaft of fifth metacarpal bone, left hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.357P | Nondisplaced fracture of shaft of fifth metacarpal bone, left hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.357S | Nondisplaced fracture of shaft of fifth metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.358  | Nondisplaced fracture of shaft of other metacarpal bone   | Diagnosis     | ICD-10-CM |
| S62.358A | Nondisplaced fracture of shaft of other metacarpal bone, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S62.358B | Nondisplaced fracture of shaft of other metacarpal bone, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S62.358D | Nondisplaced fracture of shaft of other metacarpal bone, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S62.358G | Nondisplaced fracture of shaft of other metacarpal bone, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S62.358K | Nondisplaced fracture of shaft of other metacarpal bone, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S62.358P | Nondisplaced fracture of shaft of other metacarpal bone, subsequent encounter for fracture with malunion                    | Diagnosis     | ICD-10-CM |
| S62.358S | Nondisplaced fracture of shaft of other metacarpal bone, sequela  | Diagnosis     | ICD-10-CM |
| S62.359  | Nondisplaced fracture of shaft of unspecified metacarpal bone   | Diagnosis     | ICD-10-CM |
| S62.359A | Nondisplaced fracture of shaft of unspecified metacarpal bone, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S62.359B | Nondisplaced fracture of shaft of unspecified metacarpal bone, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S62.359D | Nondisplaced fracture of shaft of unspecified metacarpal bone, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S62.359G | Nondisplaced fracture of shaft of unspecified metacarpal bone, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.359K | Nondisplaced fracture of shaft of unspecified metacarpal bone, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.359P | Nondisplaced fracture of shaft of unspecified metacarpal bone, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.359S | Nondisplaced fracture of shaft of unspecified metacarpal bone, sequela  | Diagnosis     | ICD-10-CM |
| S62.36   | Nondisplaced fracture of neck of other metacarpal bone  | Diagnosis     | ICD-10-CM |
| S62.360  | Nondisplaced fracture of neck of second metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.360A | Nondisplaced fracture of neck of second metacarpal bone, right hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.360B | Nondisplaced fracture of neck of second metacarpal bone, right hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.360D | Nondisplaced fracture of neck of second metacarpal bone, right hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.360G | Nondisplaced fracture of neck of second metacarpal bone, right hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.360K | Nondisplaced fracture of neck of second metacarpal bone, right hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.360P | Nondisplaced fracture of neck of second metacarpal bone, right hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.360S | Nondisplaced fracture of neck of second metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.361  | Nondisplaced fracture of neck of second metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.361A | Nondisplaced fracture of neck of second metacarpal bone, left hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.361B | Nondisplaced fracture of neck of second metacarpal bone, left hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.361D | Nondisplaced fracture of neck of second metacarpal bone, left hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.361G | Nondisplaced fracture of neck of second metacarpal bone, left hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.361K | Nondisplaced fracture of neck of second metacarpal bone, left hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.361P | Nondisplaced fracture of neck of second metacarpal bone, left hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.361S | Nondisplaced fracture of neck of second metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.362  | Nondisplaced fracture of neck of third metacarpal bone, right hand  | Diagnosis     | ICD-10-CM |
| S62.362A | Nondisplaced fracture of neck of third metacarpal bone, right hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.362B | Nondisplaced fracture of neck of third metacarpal bone, right hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.362D | Nondisplaced fracture of neck of third metacarpal bone, right hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.362G | Nondisplaced fracture of neck of third metacarpal bone, right hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.362K | Nondisplaced fracture of neck of third metacarpal bone, right hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.362P | Nondisplaced fracture of neck of third metacarpal bone, right hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.362S | Nondisplaced fracture of neck of third metacarpal bone, right hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.363  | Nondisplaced fracture of neck of third metacarpal bone, left hand   | Diagnosis     | ICD-10-CM |
| S62.363A | Nondisplaced fracture of neck of third metacarpal bone, left hand, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.363B | Nondisplaced fracture of neck of third metacarpal bone, left hand, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S62.363D | Nondisplaced fracture of neck of third metacarpal bone, left hand, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S62.363G | Nondisplaced fracture of neck of third metacarpal bone, left hand, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S62.363K | Nondisplaced fracture of neck of third metacarpal bone, left hand, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S62.363P | Nondisplaced fracture of neck of third metacarpal bone, left hand, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |
| S62.363S | Nondisplaced fracture of neck of third metacarpal bone, left hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.364  | Nondisplaced fracture of neck of fourth metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.364A | Nondisplaced fracture of neck of fourth metacarpal bone, right hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.364B | Nondisplaced fracture of neck of fourth metacarpal bone, right hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.364D | Nondisplaced fracture of neck of fourth metacarpal bone, right hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.364G | Nondisplaced fracture of neck of fourth metacarpal bone, right hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.364K | Nondisplaced fracture of neck of fourth metacarpal bone, right hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.364P | Nondisplaced fracture of neck of fourth metacarpal bone, right hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.364S | Nondisplaced fracture of neck of fourth metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.365  | Nondisplaced fracture of neck of fourth metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.365A | Nondisplaced fracture of neck of fourth metacarpal bone, left hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.365B | Nondisplaced fracture of neck of fourth metacarpal bone, left hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.365D | Nondisplaced fracture of neck of fourth metacarpal bone, left hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.365G | Nondisplaced fracture of neck of fourth metacarpal bone, left hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.365K | Nondisplaced fracture of neck of fourth metacarpal bone, left hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.365P | Nondisplaced fracture of neck of fourth metacarpal bone, left hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.365S | Nondisplaced fracture of neck of fourth metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.366  | Nondisplaced fracture of neck of fifth metacarpal bone, right hand  | Diagnosis     | ICD-10-CM |
| S62.366A | Nondisplaced fracture of neck of fifth metacarpal bone, right hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.366B | Nondisplaced fracture of neck of fifth metacarpal bone, right hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.366D | Nondisplaced fracture of neck of fifth metacarpal bone, right hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.366G | Nondisplaced fracture of neck of fifth metacarpal bone, right hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.366K | Nondisplaced fracture of neck of fifth metacarpal bone, right hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.366P | Nondisplaced fracture of neck of fifth metacarpal bone, right hand, subsequent encounter for fracture with malunion       | Diagnosis     | ICD-10-CM |
| S62.366S | Nondisplaced fracture of neck of fifth metacarpal bone, right hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.367  | Nondisplaced fracture of neck of fifth metacarpal bone, left hand   | Diagnosis     | ICD-10-CM |
| S62.367A | Nondisplaced fracture of neck of fifth metacarpal bone, left hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.367B | Nondisplaced fracture of neck of fifth metacarpal bone, left hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.367D | Nondisplaced fracture of neck of fifth metacarpal bone, left hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.367G | Nondisplaced fracture of neck of fifth metacarpal bone, left hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.367K | Nondisplaced fracture of neck of fifth metacarpal bone, left hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.367P | Nondisplaced fracture of neck of fifth metacarpal bone, left hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.367S | Nondisplaced fracture of neck of fifth metacarpal bone, left hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.368  | Nondisplaced fracture of neck of other metacarpal bone  | Diagnosis     | ICD-10-CM |
| S62.368A | Nondisplaced fracture of neck of other metacarpal bone, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S62.368B | Nondisplaced fracture of neck of other metacarpal bone, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S62.368D | Nondisplaced fracture of neck of other metacarpal bone, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S62.368G | Nondisplaced fracture of neck of other metacarpal bone, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S62.368K | Nondisplaced fracture of neck of other metacarpal bone, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S62.368P | Nondisplaced fracture of neck of other metacarpal bone, subsequent encounter for fracture with malunion                   | Diagnosis     | ICD-10-CM |
| S62.368S | Nondisplaced fracture of neck of other metacarpal bone, sequela   | Diagnosis     | ICD-10-CM |
| S62.369  | Nondisplaced fracture of neck of unspecified metacarpal bone  | Diagnosis     | ICD-10-CM |
| S62.369A | Nondisplaced fracture of neck of unspecified metacarpal bone, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S62.369B | Nondisplaced fracture of neck of unspecified metacarpal bone, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S62.369D | Nondisplaced fracture of neck of unspecified metacarpal bone, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S62.369G | Nondisplaced fracture of neck of unspecified metacarpal bone, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S62.369K | Nondisplaced fracture of neck of unspecified metacarpal bone, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S62.369P | Nondisplaced fracture of neck of unspecified metacarpal bone, subsequent encounter for fracture with malunion             | Diagnosis     | ICD-10-CM |
| S62.369S | Nondisplaced fracture of neck of unspecified metacarpal bone, sequela   | Diagnosis     | ICD-10-CM |
| S62.39   | Other fracture of other metacarpal bone   | Diagnosis     | ICD-10-CM |
| S62.390  | Other fracture of second metacarpal bone, right hand  | Diagnosis     | ICD-10-CM |
| S62.390A | Other fracture of second metacarpal bone, right hand, initial encounter for closed fracture                               | Diagnosis     | ICD-10-CM |
| S62.390B | Other fracture of second metacarpal bone, right hand, initial encounter for open fracture                                 | Diagnosis     | ICD-10-CM |
| S62.390D | Other fracture of second metacarpal bone, right hand, subsequent encounter for fracture with routine healing              | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.390G | Other fracture of second metacarpal bone, right hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.390K | Other fracture of second metacarpal bone, right hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.390P | Other fracture of second metacarpal bone, right hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.390S | Other fracture of second metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.391  | Other fracture of second metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.391A | Other fracture of second metacarpal bone, left hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.391B | Other fracture of second metacarpal bone, left hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.391D | Other fracture of second metacarpal bone, left hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.391G | Other fracture of second metacarpal bone, left hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.391K | Other fracture of second metacarpal bone, left hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.391P | Other fracture of second metacarpal bone, left hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.391S | Other fracture of second metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.392  | Other fracture of third metacarpal bone, right hand  | Diagnosis     | ICD-10-CM |
| S62.392A | Other fracture of third metacarpal bone, right hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.392B | Other fracture of third metacarpal bone, right hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.392D | Other fracture of third metacarpal bone, right hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.392G | Other fracture of third metacarpal bone, right hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.392K | Other fracture of third metacarpal bone, right hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.392P | Other fracture of third metacarpal bone, right hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.392S | Other fracture of third metacarpal bone, right hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.393  | Other fracture of third metacarpal bone, left hand   | Diagnosis     | ICD-10-CM |
| S62.393A | Other fracture of third metacarpal bone, left hand, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S62.393B | Other fracture of third metacarpal bone, left hand, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S62.393D | Other fracture of third metacarpal bone, left hand, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S62.393G | Other fracture of third metacarpal bone, left hand, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S62.393K | Other fracture of third metacarpal bone, left hand, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S62.393P | Other fracture of third metacarpal bone, left hand, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |
| S62.393S | Other fracture of third metacarpal bone, left hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.394  | Other fracture of fourth metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.394A | Other fracture of fourth metacarpal bone, right hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.394B | Other fracture of fourth metacarpal bone, right hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.394D | Other fracture of fourth metacarpal bone, right hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.394G | Other fracture of fourth metacarpal bone, right hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.394K | Other fracture of fourth metacarpal bone, right hand, subsequent encounter for fracture with nonunion       | Diagnosis     | ICD-10-CM |
| S62.394P | Other fracture of fourth metacarpal bone, right hand, subsequent encounter for fracture with malunion       | Diagnosis     | ICD-10-CM |
| S62.394S | Other fracture of fourth metacarpal bone, right hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.395  | Other fracture of fourth metacarpal bone, left hand   | Diagnosis     | ICD-10-CM |
| S62.395A | Other fracture of fourth metacarpal bone, left hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.395B | Other fracture of fourth metacarpal bone, left hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.395D | Other fracture of fourth metacarpal bone, left hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.395G | Other fracture of fourth metacarpal bone, left hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.395K | Other fracture of fourth metacarpal bone, left hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.395P | Other fracture of fourth metacarpal bone, left hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.395S | Other fracture of fourth metacarpal bone, left hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.396  | Other fracture of fifth metacarpal bone, right hand   | Diagnosis     | ICD-10-CM |
| S62.396A | Other fracture of fifth metacarpal bone, right hand, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.396B | Other fracture of fifth metacarpal bone, right hand, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.396D | Other fracture of fifth metacarpal bone, right hand, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.396G | Other fracture of fifth metacarpal bone, right hand, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.396K | Other fracture of fifth metacarpal bone, right hand, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.396P | Other fracture of fifth metacarpal bone, right hand, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.396S | Other fracture of fifth metacarpal bone, right hand, sequela  | Diagnosis     | ICD-10-CM |
| S62.397  | Other fracture of fifth metacarpal bone, left hand  | Diagnosis     | ICD-10-CM |
| S62.397A | Other fracture of fifth metacarpal bone, left hand, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.397B | Other fracture of fifth metacarpal bone, left hand, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.397D | Other fracture of fifth metacarpal bone, left hand, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.397G | Other fracture of fifth metacarpal bone, left hand, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.397K | Other fracture of fifth metacarpal bone, left hand, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.397P | Other fracture of fifth metacarpal bone, left hand, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.397S | Other fracture of fifth metacarpal bone, left hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.398  | Other fracture of other metacarpal bone   | Diagnosis     | ICD-10-CM |
| S62.398A | Other fracture of other metacarpal bone, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S62.398B | Other fracture of other metacarpal bone, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S62.398D | Other fracture of other metacarpal bone, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S62.398G | Other fracture of other metacarpal bone, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S62.398K | Other fracture of other metacarpal bone, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S62.398P | Other fracture of other metacarpal bone, subsequent encounter for fracture with malunion                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.398S | Other fracture of other metacarpal bone, sequela   | Diagnosis     | ICD-10-CM |
| S62.399  | Other fracture of unspecified metacarpal bone  | Diagnosis     | ICD-10-CM |
| S62.399A | Other fracture of unspecified metacarpal bone, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.399B | Other fracture of unspecified metacarpal bone, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.399D | Other fracture of unspecified metacarpal bone, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.399G | Other fracture of unspecified metacarpal bone, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.399K | Other fracture of unspecified metacarpal bone, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.399P | Other fracture of unspecified metacarpal bone, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.399S | Other fracture of unspecified metacarpal bone, sequela   | Diagnosis     | ICD-10-CM |
| S62.5    | Fracture of thumb  | Diagnosis     | ICD-10-CM |
| S62.50   | Fracture of unspecified phalanx of thumb   | Diagnosis     | ICD-10-CM |
| S62.501  | Fracture of unspecified phalanx of right thumb   | Diagnosis     | ICD-10-CM |
| S62.501A | Fracture of unspecified phalanx of right thumb, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S62.501B | Fracture of unspecified phalanx of right thumb, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S62.501D | Fracture of unspecified phalanx of right thumb, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S62.501G | Fracture of unspecified phalanx of right thumb, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.501K | Fracture of unspecified phalanx of right thumb, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.501P | Fracture of unspecified phalanx of right thumb, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.501S | Fracture of unspecified phalanx of right thumb, sequela  | Diagnosis     | ICD-10-CM |
| S62.502  | Fracture of unspecified phalanx of left thumb  | Diagnosis     | ICD-10-CM |
| S62.502A | Fracture of unspecified phalanx of left thumb, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.502B | Fracture of unspecified phalanx of left thumb, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.502D | Fracture of unspecified phalanx of left thumb, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.502G | Fracture of unspecified phalanx of left thumb, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.502K | Fracture of unspecified phalanx of left thumb, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.502P | Fracture of unspecified phalanx of left thumb, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.502S | Fracture of unspecified phalanx of left thumb, sequela   | Diagnosis     | ICD-10-CM |
| S62.509  | Fracture of unspecified phalanx of unspecified thumb   | Diagnosis     | ICD-10-CM |
| S62.509A | Fracture of unspecified phalanx of unspecified thumb, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.509B | Fracture of unspecified phalanx of unspecified thumb, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.509D | Fracture of unspecified phalanx of unspecified thumb, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.509G | Fracture of unspecified phalanx of unspecified thumb, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.509K | Fracture of unspecified phalanx of unspecified thumb, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.509P | Fracture of unspecified phalanx of unspecified thumb, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.509S | Fracture of unspecified phalanx of unspecified thumb, sequela   | Diagnosis     | ICD-10-CM |
| S62.51   | Fracture of proximal phalanx of thumb   | Diagnosis     | ICD-10-CM |
| S62.511  | Displaced fracture of proximal phalanx of right thumb   | Diagnosis     | ICD-10-CM |
| S62.511A | Displaced fracture of proximal phalanx of right thumb, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S62.511B | Displaced fracture of proximal phalanx of right thumb, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S62.511D | Displaced fracture of proximal phalanx of right thumb, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S62.511G | Displaced fracture of proximal phalanx of right thumb, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.511K | Displaced fracture of proximal phalanx of right thumb, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.511P | Displaced fracture of proximal phalanx of right thumb, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.511S | Displaced fracture of proximal phalanx of right thumb, sequela  | Diagnosis     | ICD-10-CM |
| S62.512  | Displaced fracture of proximal phalanx of left thumb  | Diagnosis     | ICD-10-CM |
| S62.512A | Displaced fracture of proximal phalanx of left thumb, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.512B | Displaced fracture of proximal phalanx of left thumb, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.512D | Displaced fracture of proximal phalanx of left thumb, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.512G | Displaced fracture of proximal phalanx of left thumb, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.512K | Displaced fracture of proximal phalanx of left thumb, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.512P | Displaced fracture of proximal phalanx of left thumb, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.512S | Displaced fracture of proximal phalanx of left thumb, sequela   | Diagnosis     | ICD-10-CM |
| S62.513  | Displaced fracture of proximal phalanx of unspecified thumb   | Diagnosis     | ICD-10-CM |
| S62.513A | Displaced fracture of proximal phalanx of unspecified thumb, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.513B | Displaced fracture of proximal phalanx of unspecified thumb, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.513D | Displaced fracture of proximal phalanx of unspecified thumb, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.513G | Displaced fracture of proximal phalanx of unspecified thumb, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.513K | Displaced fracture of proximal phalanx of unspecified thumb, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.513P | Displaced fracture of proximal phalanx of unspecified thumb, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.513S | Displaced fracture of proximal phalanx of unspecified thumb, sequela  | Diagnosis     | ICD-10-CM |
| S62.514  | Nondisplaced fracture of proximal phalanx of right thumb  | Diagnosis     | ICD-10-CM |
| S62.514A | Nondisplaced fracture of proximal phalanx of right thumb, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S62.514B | Nondisplaced fracture of proximal phalanx of right thumb, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S62.514D | Nondisplaced fracture of proximal phalanx of right thumb, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S62.514G | Nondisplaced fracture of proximal phalanx of right thumb, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.514K | Nondisplaced fracture of proximal phalanx of right thumb, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.514P | Nondisplaced fracture of proximal phalanx of right thumb, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.514S | Nondisplaced fracture of proximal phalanx of right thumb, sequela  | Diagnosis     | ICD-10-CM |
| S62.515  | Nondisplaced fracture of proximal phalanx of left thumb  | Diagnosis     | ICD-10-CM |
| S62.515A | Nondisplaced fracture of proximal phalanx of left thumb, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.515B | Nondisplaced fracture of proximal phalanx of left thumb, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.515D | Nondisplaced fracture of proximal phalanx of left thumb, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.515G | Nondisplaced fracture of proximal phalanx of left thumb, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.515K | Nondisplaced fracture of proximal phalanx of left thumb, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.515P | Nondisplaced fracture of proximal phalanx of left thumb, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.515S | Nondisplaced fracture of proximal phalanx of left thumb, sequela   | Diagnosis     | ICD-10-CM |
| S62.516  | Nondisplaced fracture of proximal phalanx of unspecified thumb   | Diagnosis     | ICD-10-CM |
| S62.516A | Nondisplaced fracture of proximal phalanx of unspecified thumb, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.516B | Nondisplaced fracture of proximal phalanx of unspecified thumb, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.516D | Nondisplaced fracture of proximal phalanx of unspecified thumb, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.516G | Nondisplaced fracture of proximal phalanx of unspecified thumb, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.516K | Nondisplaced fracture of proximal phalanx of unspecified thumb, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.516P | Nondisplaced fracture of proximal phalanx of unspecified thumb, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.516S | Nondisplaced fracture of proximal phalanx of unspecified thumb, sequela  | Diagnosis     | ICD-10-CM |
| S62.52   | Fracture of distal phalanx of thumb  | Diagnosis     | ICD-10-CM |
| S62.521  | Displaced fracture of distal phalanx of right thumb  | Diagnosis     | ICD-10-CM |
| S62.521A | Displaced fracture of distal phalanx of right thumb, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S62.521B | Displaced fracture of distal phalanx of right thumb, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S62.521D | Displaced fracture of distal phalanx of right thumb, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S62.521G | Displaced fracture of distal phalanx of right thumb, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S62.521K | Displaced fracture of distal phalanx of right thumb, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S62.521P | Displaced fracture of distal phalanx of right thumb, subsequent encounter for fracture with malunion                   | Diagnosis     | ICD-10-CM |
| S62.521S | Displaced fracture of distal phalanx of right thumb, sequela   | Diagnosis     | ICD-10-CM |
| S62.522  | Displaced fracture of distal phalanx of left thumb   | Diagnosis     | ICD-10-CM |
| S62.522A | Displaced fracture of distal phalanx of left thumb, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S62.522B | Displaced fracture of distal phalanx of left thumb, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S62.522D | Displaced fracture of distal phalanx of left thumb, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.522G | Displaced fracture of distal phalanx of left thumb, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.522K | Displaced fracture of distal phalanx of left thumb, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.522P | Displaced fracture of distal phalanx of left thumb, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.522S | Displaced fracture of distal phalanx of left thumb, sequela   | Diagnosis     | ICD-10-CM |
| S62.523  | Displaced fracture of distal phalanx of unspecified thumb   | Diagnosis     | ICD-10-CM |
| S62.523A | Displaced fracture of distal phalanx of unspecified thumb, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.523B | Displaced fracture of distal phalanx of unspecified thumb, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.523D | Displaced fracture of distal phalanx of unspecified thumb, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.523G | Displaced fracture of distal phalanx of unspecified thumb, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.523K | Displaced fracture of distal phalanx of unspecified thumb, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.523P | Displaced fracture of distal phalanx of unspecified thumb, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.523S | Displaced fracture of distal phalanx of unspecified thumb, sequela  | Diagnosis     | ICD-10-CM |
| S62.524  | Nondisplaced fracture of distal phalanx of right thumb  | Diagnosis     | ICD-10-CM |
| S62.524A | Nondisplaced fracture of distal phalanx of right thumb, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S62.524B | Nondisplaced fracture of distal phalanx of right thumb, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S62.524D | Nondisplaced fracture of distal phalanx of right thumb, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S62.524G | Nondisplaced fracture of distal phalanx of right thumb, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S62.524K | Nondisplaced fracture of distal phalanx of right thumb, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S62.524P | Nondisplaced fracture of distal phalanx of right thumb, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S62.524S | Nondisplaced fracture of distal phalanx of right thumb, sequela   | Diagnosis     | ICD-10-CM |
| S62.525  | Nondisplaced fracture of distal phalanx of left thumb   | Diagnosis     | ICD-10-CM |
| S62.525A | Nondisplaced fracture of distal phalanx of left thumb, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S62.525B | Nondisplaced fracture of distal phalanx of left thumb, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S62.525D | Nondisplaced fracture of distal phalanx of left thumb, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S62.525G | Nondisplaced fracture of distal phalanx of left thumb, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S62.525K | Nondisplaced fracture of distal phalanx of left thumb, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S62.525P | Nondisplaced fracture of distal phalanx of left thumb, subsequent encounter for fracture with malunion            | Diagnosis     | ICD-10-CM |
| S62.525S | Nondisplaced fracture of distal phalanx of left thumb, sequela  | Diagnosis     | ICD-10-CM |
| S62.526  | Nondisplaced fracture of distal phalanx of unspecified thumb  | Diagnosis     | ICD-10-CM |
| S62.526A | Nondisplaced fracture of distal phalanx of unspecified thumb, initial encounter for closed fracture               | Diagnosis     | ICD-10-CM |
| S62.526B | Nondisplaced fracture of distal phalanx of unspecified thumb, initial encounter for open fracture                 | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.526D | Nondisplaced fracture of distal phalanx of unspecified thumb, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.526G | Nondisplaced fracture of distal phalanx of unspecified thumb, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.526K | Nondisplaced fracture of distal phalanx of unspecified thumb, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.526P | Nondisplaced fracture of distal phalanx of unspecified thumb, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.526S | Nondisplaced fracture of distal phalanx of unspecified thumb, sequela  | Diagnosis     | ICD-10-CM |
| S62.6    | Fracture of other and unspecified finger(s)  | Diagnosis     | ICD-10-CM |
| S62.60   | Fracture of unspecified phalanx of finger  | Diagnosis     | ICD-10-CM |
| S62.600  | Fracture of unspecified phalanx of right index finger  | Diagnosis     | ICD-10-CM |
| S62.600A | Fracture of unspecified phalanx of right index finger, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.600B | Fracture of unspecified phalanx of right index finger, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.600D | Fracture of unspecified phalanx of right index finger, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.600G | Fracture of unspecified phalanx of right index finger, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.600K | Fracture of unspecified phalanx of right index finger, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.600P | Fracture of unspecified phalanx of right index finger, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.600S | Fracture of unspecified phalanx of right index finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.601  | Fracture of unspecified phalanx of left index finger   | Diagnosis     | ICD-10-CM |
| S62.601A | Fracture of unspecified phalanx of left index finger, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S62.601B | Fracture of unspecified phalanx of left index finger, initial encounter for open fracture                            | Diagnosis     | ICD-10-CM |
| S62.601D | Fracture of unspecified phalanx of left index finger, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S62.601G | Fracture of unspecified phalanx of left index finger, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S62.601K | Fracture of unspecified phalanx of left index finger, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S62.601P | Fracture of unspecified phalanx of left index finger, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S62.601S | Fracture of unspecified phalanx of left index finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.602  | Fracture of unspecified phalanx of right middle finger   | Diagnosis     | ICD-10-CM |
| S62.602A | Fracture of unspecified phalanx of right middle finger, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S62.602B | Fracture of unspecified phalanx of right middle finger, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S62.602D | Fracture of unspecified phalanx of right middle finger, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S62.602G | Fracture of unspecified phalanx of right middle finger, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.602K | Fracture of unspecified phalanx of right middle finger, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.602P | Fracture of unspecified phalanx of right middle finger, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.602S | Fracture of unspecified phalanx of right middle finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.603  | Fracture of unspecified phalanx of left middle finger  | Diagnosis     | ICD-10-CM |
| S62.603A | Fracture of unspecified phalanx of left middle finger, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.603B | Fracture of unspecified phalanx of left middle finger, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.603D | Fracture of unspecified phalanx of left middle finger, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.603G | Fracture of unspecified phalanx of left middle finger, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.603K | Fracture of unspecified phalanx of left middle finger, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.603P | Fracture of unspecified phalanx of left middle finger, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.603S | Fracture of unspecified phalanx of left middle finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.604  | Fracture of unspecified phalanx of right ring finger   | Diagnosis     | ICD-10-CM |
| S62.604A | Fracture of unspecified phalanx of right ring finger, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S62.604B | Fracture of unspecified phalanx of right ring finger, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S62.604D | Fracture of unspecified phalanx of right ring finger, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S62.604G | Fracture of unspecified phalanx of right ring finger, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S62.604K | Fracture of unspecified phalanx of right ring finger, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S62.604P | Fracture of unspecified phalanx of right ring finger, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |
| S62.604S | Fracture of unspecified phalanx of right ring finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.605  | Fracture of unspecified phalanx of left ring finger  | Diagnosis     | ICD-10-CM |
| S62.605A | Fracture of unspecified phalanx of left ring finger, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S62.605B | Fracture of unspecified phalanx of left ring finger, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S62.605D | Fracture of unspecified phalanx of left ring finger, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S62.605G | Fracture of unspecified phalanx of left ring finger, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S62.605K | Fracture of unspecified phalanx of left ring finger, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S62.605P | Fracture of unspecified phalanx of left ring finger, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S62.605S | Fracture of unspecified phalanx of left ring finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.606  | Fracture of unspecified phalanx of right little finger   | Diagnosis     | ICD-10-CM |
| S62.606A | Fracture of unspecified phalanx of right little finger, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.606B | Fracture of unspecified phalanx of right little finger, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.606D | Fracture of unspecified phalanx of right little finger, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.606G | Fracture of unspecified phalanx of right little finger, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.606K | Fracture of unspecified phalanx of right little finger, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.606P | Fracture of unspecified phalanx of right little finger, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.606S | Fracture of unspecified phalanx of right little finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.607  | Fracture of unspecified phalanx of left little finger  | Diagnosis     | ICD-10-CM |
| S62.607A | Fracture of unspecified phalanx of left little finger, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.607B | Fracture of unspecified phalanx of left little finger, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.607D | Fracture of unspecified phalanx of left little finger, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.607G | Fracture of unspecified phalanx of left little finger, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.607K | Fracture of unspecified phalanx of left little finger, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.607P | Fracture of unspecified phalanx of left little finger, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.607S | Fracture of unspecified phalanx of left little finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.608  | Fracture of unspecified phalanx of other finger  | Diagnosis     | ICD-10-CM |
| S62.608A | Fracture of unspecified phalanx of other finger, initial encounter for closed fracture                               | Diagnosis     | ICD-10-CM |
| S62.608B | Fracture of unspecified phalanx of other finger, initial encounter for open fracture                                 | Diagnosis     | ICD-10-CM |
| S62.608D | Fracture of unspecified phalanx of other finger, subsequent encounter for fracture with routine healing              | Diagnosis     | ICD-10-CM |
| S62.608G | Fracture of unspecified phalanx of other finger, subsequent encounter for fracture with delayed healing              | Diagnosis     | ICD-10-CM |
| S62.608K | Fracture of unspecified phalanx of other finger, subsequent encounter for fracture with nonunion                     | Diagnosis     | ICD-10-CM |
| S62.608P | Fracture of unspecified phalanx of other finger, subsequent encounter for fracture with malunion                     | Diagnosis     | ICD-10-CM |
| S62.608S | Fracture of unspecified phalanx of other finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.609  | Fracture of unspecified phalanx of unspecified finger  | Diagnosis     | ICD-10-CM |
| S62.609A | Fracture of unspecified phalanx of unspecified finger, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.609B | Fracture of unspecified phalanx of unspecified finger, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.609D | Fracture of unspecified phalanx of unspecified finger, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.609G | Fracture of unspecified phalanx of unspecified finger, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.609K | Fracture of unspecified phalanx of unspecified finger, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.609P | Fracture of unspecified phalanx of unspecified finger, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.609S | Fracture of unspecified phalanx of unspecified finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.61   | Displaced fracture of proximal phalanx of finger   | Diagnosis     | ICD-10-CM |
| S62.610  | Displaced fracture of proximal phalanx of right index finger   | Diagnosis     | ICD-10-CM |
| S62.610A | Displaced fracture of proximal phalanx of right index finger, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.610B | Displaced fracture of proximal phalanx of right index finger, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.610D | Displaced fracture of proximal phalanx of right index finger, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.610G | Displaced fracture of proximal phalanx of right index finger, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.610K | Displaced fracture of proximal phalanx of right index finger, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.610P | Displaced fracture of proximal phalanx of right index finger, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.610S | Displaced fracture of proximal phalanx of right index finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.611  | Displaced fracture of proximal phalanx of left index finger  | Diagnosis     | ICD-10-CM |
| S62.611A | Displaced fracture of proximal phalanx of left index finger, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.611B | Displaced fracture of proximal phalanx of left index finger, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S62.611D | Displaced fracture of proximal phalanx of left index finger, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S62.611G | Displaced fracture of proximal phalanx of left index finger, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S62.611K | Displaced fracture of proximal phalanx of left index finger, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S62.611P | Displaced fracture of proximal phalanx of left index finger, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |
| S62.611S | Displaced fracture of proximal phalanx of left index finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.612  | Displaced fracture of proximal phalanx of right middle finger   | Diagnosis     | ICD-10-CM |
| S62.612A | Displaced fracture of proximal phalanx of right middle finger, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.612B | Displaced fracture of proximal phalanx of right middle finger, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.612D | Displaced fracture of proximal phalanx of right middle finger, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.612G | Displaced fracture of proximal phalanx of right middle finger, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.612K | Displaced fracture of proximal phalanx of right middle finger, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.612P | Displaced fracture of proximal phalanx of right middle finger, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.612S | Displaced fracture of proximal phalanx of right middle finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.613  | Displaced fracture of proximal phalanx of left middle finger  | Diagnosis     | ICD-10-CM |
| S62.613A | Displaced fracture of proximal phalanx of left middle finger, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.613B | Displaced fracture of proximal phalanx of left middle finger, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.613D | Displaced fracture of proximal phalanx of left middle finger, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.613G | Displaced fracture of proximal phalanx of left middle finger, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.613K | Displaced fracture of proximal phalanx of left middle finger, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.613P | Displaced fracture of proximal phalanx of left middle finger, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.613S | Displaced fracture of proximal phalanx of left middle finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.614  | Displaced fracture of proximal phalanx of right ring finger   | Diagnosis     | ICD-10-CM |
| S62.614A | Displaced fracture of proximal phalanx of right ring finger, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S62.614B | Displaced fracture of proximal phalanx of right ring finger, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S62.614D | Displaced fracture of proximal phalanx of right ring finger, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S62.614G | Displaced fracture of proximal phalanx of right ring finger, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S62.614K | Displaced fracture of proximal phalanx of right ring finger, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.614P | Displaced fracture of proximal phalanx of right ring finger, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |
| S62.614S | Displaced fracture of proximal phalanx of right ring finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.615  | Displaced fracture of proximal phalanx of left ring finger  | Diagnosis     | ICD-10-CM |
| S62.615A | Displaced fracture of proximal phalanx of left ring finger, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S62.615B | Displaced fracture of proximal phalanx of left ring finger, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S62.615D | Displaced fracture of proximal phalanx of left ring finger, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S62.615G | Displaced fracture of proximal phalanx of left ring finger, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S62.615K | Displaced fracture of proximal phalanx of left ring finger, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S62.615P | Displaced fracture of proximal phalanx of left ring finger, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S62.615S | Displaced fracture of proximal phalanx of left ring finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.616  | Displaced fracture of proximal phalanx of right little finger   | Diagnosis     | ICD-10-CM |
| S62.616A | Displaced fracture of proximal phalanx of right little finger, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.616B | Displaced fracture of proximal phalanx of right little finger, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.616D | Displaced fracture of proximal phalanx of right little finger, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.616G | Displaced fracture of proximal phalanx of right little finger, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.616K | Displaced fracture of proximal phalanx of right little finger, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.616P | Displaced fracture of proximal phalanx of right little finger, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.616S | Displaced fracture of proximal phalanx of right little finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.617  | Displaced fracture of proximal phalanx of left little finger  | Diagnosis     | ICD-10-CM |
| S62.617A | Displaced fracture of proximal phalanx of left little finger, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.617B | Displaced fracture of proximal phalanx of left little finger, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.617D | Displaced fracture of proximal phalanx of left little finger, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.617G | Displaced fracture of proximal phalanx of left little finger, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.617K | Displaced fracture of proximal phalanx of left little finger, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.617P | Displaced fracture of proximal phalanx of left little finger, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.617S | Displaced fracture of proximal phalanx of left little finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.618  | Displaced fracture of proximal phalanx of other finger  | Diagnosis     | ICD-10-CM |
| S62.618A | Displaced fracture of proximal phalanx of other finger, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.618B | Displaced fracture of proximal phalanx of other finger, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.618D | Displaced fracture of proximal phalanx of other finger, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.618G | Displaced fracture of proximal phalanx of other finger, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.618K | Displaced fracture of proximal phalanx of other finger, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.618P | Displaced fracture of proximal phalanx of other finger, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.618S | Displaced fracture of proximal phalanx of other finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.619  | Displaced fracture of proximal phalanx of unspecified finger   | Diagnosis     | ICD-10-CM |
| S62.619A | Displaced fracture of proximal phalanx of unspecified finger, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.619B | Displaced fracture of proximal phalanx of unspecified finger, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.619D | Displaced fracture of proximal phalanx of unspecified finger, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.619G | Displaced fracture of proximal phalanx of unspecified finger, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.619K | Displaced fracture of proximal phalanx of unspecified finger, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.619P | Displaced fracture of proximal phalanx of unspecified finger, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.619S | Displaced fracture of proximal phalanx of unspecified finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.62   | Displaced fracture of middle phalanx of finger   | Diagnosis     | ICD-10-CM |
| S62.620  | Displaced fracture of middle phalanx of right index finger   | Diagnosis     | ICD-10-CM |
| S62.620A | Displaced fracture of middle phalanx of right index finger, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S62.620B | Displaced fracture of middle phalanx of right index finger, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S62.620D | Displaced fracture of middle phalanx of right index finger, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S62.620G | Displaced fracture of middle phalanx of right index finger, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S62.620K | Displaced fracture of middle phalanx of right index finger, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S62.620P | Displaced fracture of middle phalanx of right index finger, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |
| S62.620S | Displaced fracture of middle phalanx of right index finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.621  | Displaced fracture of middle phalanx of left index finger  | Diagnosis     | ICD-10-CM |
| S62.621A | Displaced fracture of middle phalanx of left index finger, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S62.621B | Displaced fracture of middle phalanx of left index finger, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S62.621D | Displaced fracture of middle phalanx of left index finger, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S62.621G | Displaced fracture of middle phalanx of left index finger, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S62.621K | Displaced fracture of middle phalanx of left index finger, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S62.621P | Displaced fracture of middle phalanx of left index finger, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S62.621S | Displaced fracture of middle phalanx of left index finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.622  | Displaced fracture of middle phalanx of right middle finger  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.622A | Displaced fracture of middle phalanx of right middle finger, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.622B | Displaced fracture of middle phalanx of right middle finger, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.622D | Displaced fracture of middle phalanx of right middle finger, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.622G | Displaced fracture of middle phalanx of right middle finger, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.622K | Displaced fracture of middle phalanx of right middle finger, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.622P | Displaced fracture of middle phalanx of right middle finger, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.622S | Displaced fracture of middle phalanx of right middle finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.623  | Displaced fracture of middle phalanx of left middle finger  | Diagnosis     | ICD-10-CM |
| S62.623A | Displaced fracture of middle phalanx of left middle finger, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.623B | Displaced fracture of middle phalanx of left middle finger, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.623D | Displaced fracture of middle phalanx of left middle finger, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.623G | Displaced fracture of middle phalanx of left middle finger, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.623K | Displaced fracture of middle phalanx of left middle finger, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.623P | Displaced fracture of middle phalanx of left middle finger, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.623S | Displaced fracture of middle phalanx of left middle finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.624  | Displaced fracture of middle phalanx of right ring finger   | Diagnosis     | ICD-10-CM |
| S62.624A | Displaced fracture of middle phalanx of right ring finger, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S62.624B | Displaced fracture of middle phalanx of right ring finger, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S62.624D | Displaced fracture of middle phalanx of right ring finger, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S62.624G | Displaced fracture of middle phalanx of right ring finger, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S62.624K | Displaced fracture of middle phalanx of right ring finger, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S62.624P | Displaced fracture of middle phalanx of right ring finger, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |
| S62.624S | Displaced fracture of middle phalanx of right ring finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.625  | Displaced fracture of middle phalanx of left ring finger  | Diagnosis     | ICD-10-CM |
| S62.625A | Displaced fracture of middle phalanx of left ring finger, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S62.625B | Displaced fracture of middle phalanx of left ring finger, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S62.625D | Displaced fracture of middle phalanx of left ring finger, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S62.625G | Displaced fracture of middle phalanx of left ring finger, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S62.625K | Displaced fracture of middle phalanx of left ring finger, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.625P | Displaced fracture of middle phalanx of left ring finger, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S62.625S | Displaced fracture of middle phalanx of left ring finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.626  | Displaced fracture of middle phalanx of right little finger   | Diagnosis     | ICD-10-CM |
| S62.626A | Displaced fracture of middle phalanx of right little finger, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.626B | Displaced fracture of middle phalanx of right little finger, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.626D | Displaced fracture of middle phalanx of right little finger, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.626G | Displaced fracture of middle phalanx of right little finger, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.626K | Displaced fracture of middle phalanx of right little finger, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.626P | Displaced fracture of middle phalanx of right little finger, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.626S | Displaced fracture of middle phalanx of right little finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.627  | Displaced fracture of middle phalanx of left little finger  | Diagnosis     | ICD-10-CM |
| S62.627A | Displaced fracture of middle phalanx of left little finger, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.627B | Displaced fracture of middle phalanx of left little finger, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.627D | Displaced fracture of middle phalanx of left little finger, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.627G | Displaced fracture of middle phalanx of left little finger, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.627K | Displaced fracture of middle phalanx of left little finger, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.627P | Displaced fracture of middle phalanx of left little finger, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.627S | Displaced fracture of middle phalanx of left little finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.628  | Displaced fracture of middle phalanx of other finger  | Diagnosis     | ICD-10-CM |
| S62.628A | Displaced fracture of middle phalanx of other finger, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.628B | Displaced fracture of middle phalanx of other finger, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.628D | Displaced fracture of middle phalanx of other finger, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.628G | Displaced fracture of middle phalanx of other finger, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.628K | Displaced fracture of middle phalanx of other finger, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.628P | Displaced fracture of middle phalanx of other finger, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.628S | Displaced fracture of middle phalanx of other finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.629  | Displaced fracture of middle phalanx of unspecified finger  | Diagnosis     | ICD-10-CM |
| S62.629A | Displaced fracture of middle phalanx of unspecified finger, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.629B | Displaced fracture of middle phalanx of unspecified finger, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.629D | Displaced fracture of middle phalanx of unspecified finger, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.629G | Displaced fracture of middle phalanx of unspecified finger, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.629K | Displaced fracture of middle phalanx of unspecified finger, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.629P | Displaced fracture of middle phalanx of unspecified finger, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.629S | Displaced fracture of middle phalanx of unspecified finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.63   | Displaced fracture of distal phalanx of finger  | Diagnosis     | ICD-10-CM |
| S62.630  | Displaced fracture of distal phalanx of right index finger  | Diagnosis     | ICD-10-CM |
| S62.630A | Displaced fracture of distal phalanx of right index finger, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.630B | Displaced fracture of distal phalanx of right index finger, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.630D | Displaced fracture of distal phalanx of right index finger, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.630G | Displaced fracture of distal phalanx of right index finger, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.630K | Displaced fracture of distal phalanx of right index finger, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.630P | Displaced fracture of distal phalanx of right index finger, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.630S | Displaced fracture of distal phalanx of right index finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.631  | Displaced fracture of distal phalanx of left index finger   | Diagnosis     | ICD-10-CM |
| S62.631A | Displaced fracture of distal phalanx of left index finger, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S62.631B | Displaced fracture of distal phalanx of left index finger, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S62.631D | Displaced fracture of distal phalanx of left index finger, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S62.631G | Displaced fracture of distal phalanx of left index finger, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S62.631K | Displaced fracture of distal phalanx of left index finger, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S62.631P | Displaced fracture of distal phalanx of left index finger, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |
| S62.631S | Displaced fracture of distal phalanx of left index finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.632  | Displaced fracture of distal phalanx of right middle finger   | Diagnosis     | ICD-10-CM |
| S62.632A | Displaced fracture of distal phalanx of right middle finger, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.632B | Displaced fracture of distal phalanx of right middle finger, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.632D | Displaced fracture of distal phalanx of right middle finger, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.632G | Displaced fracture of distal phalanx of right middle finger, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.632K | Displaced fracture of distal phalanx of right middle finger, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.632P | Displaced fracture of distal phalanx of right middle finger, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.632S | Displaced fracture of distal phalanx of right middle finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.633  | Displaced fracture of distal phalanx of left middle finger  | Diagnosis     | ICD-10-CM |
| S62.633A | Displaced fracture of distal phalanx of left middle finger, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.633B | Displaced fracture of distal phalanx of left middle finger, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.633D | Displaced fracture of distal phalanx of left middle finger, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.633G | Displaced fracture of distal phalanx of left middle finger, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.633K | Displaced fracture of distal phalanx of left middle finger, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.633P | Displaced fracture of distal phalanx of left middle finger, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.633S | Displaced fracture of distal phalanx of left middle finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.634  | Displaced fracture of distal phalanx of right ring finger   | Diagnosis     | ICD-10-CM |
| S62.634A | Displaced fracture of distal phalanx of right ring finger, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S62.634B | Displaced fracture of distal phalanx of right ring finger, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S62.634D | Displaced fracture of distal phalanx of right ring finger, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S62.634G | Displaced fracture of distal phalanx of right ring finger, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S62.634K | Displaced fracture of distal phalanx of right ring finger, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S62.634P | Displaced fracture of distal phalanx of right ring finger, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |
| S62.634S | Displaced fracture of distal phalanx of right ring finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.635  | Displaced fracture of distal phalanx of left ring finger  | Diagnosis     | ICD-10-CM |
| S62.635A | Displaced fracture of distal phalanx of left ring finger, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S62.635B | Displaced fracture of distal phalanx of left ring finger, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S62.635D | Displaced fracture of distal phalanx of left ring finger, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S62.635G | Displaced fracture of distal phalanx of left ring finger, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S62.635K | Displaced fracture of distal phalanx of left ring finger, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S62.635P | Displaced fracture of distal phalanx of left ring finger, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S62.635S | Displaced fracture of distal phalanx of left ring finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.636  | Displaced fracture of distal phalanx of right little finger   | Diagnosis     | ICD-10-CM |
| S62.636A | Displaced fracture of distal phalanx of right little finger, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.636B | Displaced fracture of distal phalanx of right little finger, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.636D | Displaced fracture of distal phalanx of right little finger, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.636G | Displaced fracture of distal phalanx of right little finger, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.636K | Displaced fracture of distal phalanx of right little finger, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.636P | Displaced fracture of distal phalanx of right little finger, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.636S | Displaced fracture of distal phalanx of right little finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.637  | Displaced fracture of distal phalanx of left little finger  | Diagnosis     | ICD-10-CM |
| S62.637A | Displaced fracture of distal phalanx of left little finger, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.637B | Displaced fracture of distal phalanx of left little finger, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.637D | Displaced fracture of distal phalanx of left little finger, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S62.637G | Displaced fracture of distal phalanx of left little finger, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S62.637K | Displaced fracture of distal phalanx of left little finger, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S62.637P | Displaced fracture of distal phalanx of left little finger, subsequent encounter for fracture with malunion             | Diagnosis     | ICD-10-CM |
| S62.637S | Displaced fracture of distal phalanx of left little finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.638  | Displaced fracture of distal phalanx of other finger  | Diagnosis     | ICD-10-CM |
| S62.638A | Displaced fracture of distal phalanx of other finger, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S62.638B | Displaced fracture of distal phalanx of other finger, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S62.638D | Displaced fracture of distal phalanx of other finger, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S62.638G | Displaced fracture of distal phalanx of other finger, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S62.638K | Displaced fracture of distal phalanx of other finger, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S62.638P | Displaced fracture of distal phalanx of other finger, subsequent encounter for fracture with malunion                   | Diagnosis     | ICD-10-CM |
| S62.638S | Displaced fracture of distal phalanx of other finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.639  | Displaced fracture of distal phalanx of unspecified finger  | Diagnosis     | ICD-10-CM |
| S62.639A | Displaced fracture of distal phalanx of unspecified finger, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S62.639B | Displaced fracture of distal phalanx of unspecified finger, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S62.639D | Displaced fracture of distal phalanx of unspecified finger, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S62.639G | Displaced fracture of distal phalanx of unspecified finger, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S62.639K | Displaced fracture of distal phalanx of unspecified finger, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S62.639P | Displaced fracture of distal phalanx of unspecified finger, subsequent encounter for fracture with malunion             | Diagnosis     | ICD-10-CM |
| S62.639S | Displaced fracture of distal phalanx of unspecified finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.64   | Nondisplaced fracture of proximal phalanx of finger   | Diagnosis     | ICD-10-CM |
| S62.640  | Nondisplaced fracture of proximal phalanx of right index finger   | Diagnosis     | ICD-10-CM |
| S62.640A | Nondisplaced fracture of proximal phalanx of right index finger, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.640B | Nondisplaced fracture of proximal phalanx of right index finger, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.640D | Nondisplaced fracture of proximal phalanx of right index finger, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.640G | Nondisplaced fracture of proximal phalanx of right index finger, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.640K | Nondisplaced fracture of proximal phalanx of right index finger, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.640P | Nondisplaced fracture of proximal phalanx of right index finger, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.640S | Nondisplaced fracture of proximal phalanx of right index finger, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.641  | Nondisplaced fracture of proximal phalanx of left index finger   | Diagnosis     | ICD-10-CM |
| S62.641A | Nondisplaced fracture of proximal phalanx of left index finger, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S62.641B | Nondisplaced fracture of proximal phalanx of left index finger, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S62.641D | Nondisplaced fracture of proximal phalanx of left index finger, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S62.641G | Nondisplaced fracture of proximal phalanx of left index finger, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S62.641K | Nondisplaced fracture of proximal phalanx of left index finger, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S62.641P | Nondisplaced fracture of proximal phalanx of left index finger, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |
| S62.641S | Nondisplaced fracture of proximal phalanx of left index finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.642  | Nondisplaced fracture of proximal phalanx of right middle finger   | Diagnosis     | ICD-10-CM |
| S62.642A | Nondisplaced fracture of proximal phalanx of right middle finger, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.642B | Nondisplaced fracture of proximal phalanx of right middle finger, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.642D | Nondisplaced fracture of proximal phalanx of right middle finger, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.642G | Nondisplaced fracture of proximal phalanx of right middle finger, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.642K | Nondisplaced fracture of proximal phalanx of right middle finger, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.642P | Nondisplaced fracture of proximal phalanx of right middle finger, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.642S | Nondisplaced fracture of proximal phalanx of right middle finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.643  | Nondisplaced fracture of proximal phalanx of left middle finger  | Diagnosis     | ICD-10-CM |
| S62.643A | Nondisplaced fracture of proximal phalanx of left middle finger, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.643B | Nondisplaced fracture of proximal phalanx of left middle finger, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.643D | Nondisplaced fracture of proximal phalanx of left middle finger, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.643G | Nondisplaced fracture of proximal phalanx of left middle finger, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.643K | Nondisplaced fracture of proximal phalanx of left middle finger, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.643P | Nondisplaced fracture of proximal phalanx of left middle finger, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.643S | Nondisplaced fracture of proximal phalanx of left middle finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.644  | Nondisplaced fracture of proximal phalanx of right ring finger   | Diagnosis     | ICD-10-CM |
| S62.644A | Nondisplaced fracture of proximal phalanx of right ring finger, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S62.644B | Nondisplaced fracture of proximal phalanx of right ring finger, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S62.644D | Nondisplaced fracture of proximal phalanx of right ring finger, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.644G | Nondisplaced fracture of proximal phalanx of right ring finger, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S62.644K | Nondisplaced fracture of proximal phalanx of right ring finger, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S62.644P | Nondisplaced fracture of proximal phalanx of right ring finger, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |
| S62.644S | Nondisplaced fracture of proximal phalanx of right ring finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.645  | Nondisplaced fracture of proximal phalanx of left ring finger  | Diagnosis     | ICD-10-CM |
| S62.645A | Nondisplaced fracture of proximal phalanx of left ring finger, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S62.645B | Nondisplaced fracture of proximal phalanx of left ring finger, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S62.645D | Nondisplaced fracture of proximal phalanx of left ring finger, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S62.645G | Nondisplaced fracture of proximal phalanx of left ring finger, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S62.645K | Nondisplaced fracture of proximal phalanx of left ring finger, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S62.645P | Nondisplaced fracture of proximal phalanx of left ring finger, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S62.645S | Nondisplaced fracture of proximal phalanx of left ring finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.646  | Nondisplaced fracture of proximal phalanx of right little finger   | Diagnosis     | ICD-10-CM |
| S62.646A | Nondisplaced fracture of proximal phalanx of right little finger, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.646B | Nondisplaced fracture of proximal phalanx of right little finger, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.646D | Nondisplaced fracture of proximal phalanx of right little finger, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.646G | Nondisplaced fracture of proximal phalanx of right little finger, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.646K | Nondisplaced fracture of proximal phalanx of right little finger, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.646P | Nondisplaced fracture of proximal phalanx of right little finger, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.646S | Nondisplaced fracture of proximal phalanx of right little finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.647  | Nondisplaced fracture of proximal phalanx of left little finger  | Diagnosis     | ICD-10-CM |
| S62.647A | Nondisplaced fracture of proximal phalanx of left little finger, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.647B | Nondisplaced fracture of proximal phalanx of left little finger, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.647D | Nondisplaced fracture of proximal phalanx of left little finger, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.647G | Nondisplaced fracture of proximal phalanx of left little finger, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.647K | Nondisplaced fracture of proximal phalanx of left little finger, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.647P | Nondisplaced fracture of proximal phalanx of left little finger, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.647S | Nondisplaced fracture of proximal phalanx of left little finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.648  | Nondisplaced fracture of proximal phalanx of other finger  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.648A | Nondisplaced fracture of proximal phalanx of other finger, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S62.648B | Nondisplaced fracture of proximal phalanx of other finger, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S62.648D | Nondisplaced fracture of proximal phalanx of other finger, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S62.648G | Nondisplaced fracture of proximal phalanx of other finger, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S62.648K | Nondisplaced fracture of proximal phalanx of other finger, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.648P | Nondisplaced fracture of proximal phalanx of other finger, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.648S | Nondisplaced fracture of proximal phalanx of other finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.649  | Nondisplaced fracture of proximal phalanx of unspecified finger   | Diagnosis     | ICD-10-CM |
| S62.649A | Nondisplaced fracture of proximal phalanx of unspecified finger, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.649B | Nondisplaced fracture of proximal phalanx of unspecified finger, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.649D | Nondisplaced fracture of proximal phalanx of unspecified finger, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.649G | Nondisplaced fracture of proximal phalanx of unspecified finger, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.649K | Nondisplaced fracture of proximal phalanx of unspecified finger, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.649P | Nondisplaced fracture of proximal phalanx of unspecified finger, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.649S | Nondisplaced fracture of proximal phalanx of unspecified finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.65   | Nondisplaced fracture of middle phalanx of finger   | Diagnosis     | ICD-10-CM |
| S62.650  | Nondisplaced fracture of middle phalanx of right index finger   | Diagnosis     | ICD-10-CM |
| S62.650A | Nondisplaced fracture of middle phalanx of right index finger, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S62.650B | Nondisplaced fracture of middle phalanx of right index finger, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S62.650D | Nondisplaced fracture of middle phalanx of right index finger, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S62.650G | Nondisplaced fracture of middle phalanx of right index finger, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S62.650K | Nondisplaced fracture of middle phalanx of right index finger, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S62.650P | Nondisplaced fracture of middle phalanx of right index finger, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |
| S62.650S | Nondisplaced fracture of middle phalanx of right index finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.651  | Nondisplaced fracture of middle phalanx of left index finger  | Diagnosis     | ICD-10-CM |
| S62.651A | Nondisplaced fracture of middle phalanx of left index finger, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S62.651B | Nondisplaced fracture of middle phalanx of left index finger, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S62.651D | Nondisplaced fracture of middle phalanx of left index finger, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.651G | Nondisplaced fracture of middle phalanx of left index finger, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S62.651K | Nondisplaced fracture of middle phalanx of left index finger, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S62.651P | Nondisplaced fracture of middle phalanx of left index finger, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |
| S62.651S | Nondisplaced fracture of middle phalanx of left index finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.652  | Nondisplaced fracture of middle phalanx of right middle finger   | Diagnosis     | ICD-10-CM |
| S62.652A | Nondisplaced fracture of middle phalanx of right middle finger, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.652B | Nondisplaced fracture of middle phalanx of right middle finger, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.652D | Nondisplaced fracture of middle phalanx of right middle finger, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.652G | Nondisplaced fracture of middle phalanx of right middle finger, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.652K | Nondisplaced fracture of middle phalanx of right middle finger, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.652P | Nondisplaced fracture of middle phalanx of right middle finger, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.652S | Nondisplaced fracture of middle phalanx of right middle finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.653  | Nondisplaced fracture of middle phalanx of left middle finger  | Diagnosis     | ICD-10-CM |
| S62.653A | Nondisplaced fracture of middle phalanx of left middle finger, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.653B | Nondisplaced fracture of middle phalanx of left middle finger, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.653D | Nondisplaced fracture of middle phalanx of left middle finger, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.653G | Nondisplaced fracture of middle phalanx of left middle finger, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.653K | Nondisplaced fracture of middle phalanx of left middle finger, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.653P | Nondisplaced fracture of middle phalanx of left middle finger, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.653S | Nondisplaced fracture of middle phalanx of left middle finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.654  | Nondisplaced fracture of middle phalanx of right ring finger   | Diagnosis     | ICD-10-CM |
| S62.654A | Nondisplaced fracture of middle phalanx of right ring finger, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S62.654B | Nondisplaced fracture of middle phalanx of right ring finger, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S62.654D | Nondisplaced fracture of middle phalanx of right ring finger, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S62.654G | Nondisplaced fracture of middle phalanx of right ring finger, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S62.654K | Nondisplaced fracture of middle phalanx of right ring finger, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S62.654P | Nondisplaced fracture of middle phalanx of right ring finger, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |
| S62.654S | Nondisplaced fracture of middle phalanx of right ring finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.655  | Nondisplaced fracture of middle phalanx of left ring finger  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.655A | Nondisplaced fracture of middle phalanx of left ring finger, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S62.655B | Nondisplaced fracture of middle phalanx of left ring finger, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S62.655D | Nondisplaced fracture of middle phalanx of left ring finger, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S62.655G | Nondisplaced fracture of middle phalanx of left ring finger, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S62.655K | Nondisplaced fracture of middle phalanx of left ring finger, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S62.655P | Nondisplaced fracture of middle phalanx of left ring finger, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S62.655S | Nondisplaced fracture of middle phalanx of left ring finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.656  | Nondisplaced fracture of middle phalanx of right little finger   | Diagnosis     | ICD-10-CM |
| S62.656A | Nondisplaced fracture of middle phalanx of right little finger, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.656B | Nondisplaced fracture of middle phalanx of right little finger, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.656D | Nondisplaced fracture of middle phalanx of right little finger, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.656G | Nondisplaced fracture of middle phalanx of right little finger, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.656K | Nondisplaced fracture of middle phalanx of right little finger, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.656P | Nondisplaced fracture of middle phalanx of right little finger, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.656S | Nondisplaced fracture of middle phalanx of right little finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.657  | Nondisplaced fracture of middle phalanx of left little finger  | Diagnosis     | ICD-10-CM |
| S62.657A | Nondisplaced fracture of middle phalanx of left little finger, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.657B | Nondisplaced fracture of middle phalanx of left little finger, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.657D | Nondisplaced fracture of middle phalanx of left little finger, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.657G | Nondisplaced fracture of middle phalanx of left little finger, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.657K | Nondisplaced fracture of middle phalanx of left little finger, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.657P | Nondisplaced fracture of middle phalanx of left little finger, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.657S | Nondisplaced fracture of middle phalanx of left little finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.658  | Nondisplaced fracture of middle phalanx of other finger  | Diagnosis     | ICD-10-CM |
| S62.658A | Nondisplaced fracture of middle phalanx of other finger, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.658B | Nondisplaced fracture of middle phalanx of other finger, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.658D | Nondisplaced fracture of middle phalanx of other finger, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.658G | Nondisplaced fracture of middle phalanx of other finger, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.658K | Nondisplaced fracture of middle phalanx of other finger, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S62.658P | Nondisplaced fracture of middle phalanx of other finger, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S62.658S | Nondisplaced fracture of middle phalanx of other finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.659  | Nondisplaced fracture of middle phalanx of unspecified finger   | Diagnosis     | ICD-10-CM |
| S62.659A | Nondisplaced fracture of middle phalanx of unspecified finger, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.659B | Nondisplaced fracture of middle phalanx of unspecified finger, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.659D | Nondisplaced fracture of middle phalanx of unspecified finger, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.659G | Nondisplaced fracture of middle phalanx of unspecified finger, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.659K | Nondisplaced fracture of middle phalanx of unspecified finger, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.659P | Nondisplaced fracture of middle phalanx of unspecified finger, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.659S | Nondisplaced fracture of middle phalanx of unspecified finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.66   | Nondisplaced fracture of distal phalanx of finger   | Diagnosis     | ICD-10-CM |
| S62.660  | Nondisplaced fracture of distal phalanx of right index finger   | Diagnosis     | ICD-10-CM |
| S62.660A | Nondisplaced fracture of distal phalanx of right index finger, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.660B | Nondisplaced fracture of distal phalanx of right index finger, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.660D | Nondisplaced fracture of distal phalanx of right index finger, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.660G | Nondisplaced fracture of distal phalanx of right index finger, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.660K | Nondisplaced fracture of distal phalanx of right index finger, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.660P | Nondisplaced fracture of distal phalanx of right index finger, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.660S | Nondisplaced fracture of distal phalanx of right index finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.661  | Nondisplaced fracture of distal phalanx of left index finger  | Diagnosis     | ICD-10-CM |
| S62.661A | Nondisplaced fracture of distal phalanx of left index finger, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.661B | Nondisplaced fracture of distal phalanx of left index finger, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.661D | Nondisplaced fracture of distal phalanx of left index finger, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.661G | Nondisplaced fracture of distal phalanx of left index finger, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.661K | Nondisplaced fracture of distal phalanx of left index finger, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.661P | Nondisplaced fracture of distal phalanx of left index finger, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.661S | Nondisplaced fracture of distal phalanx of left index finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.662  | Nondisplaced fracture of distal phalanx of right middle finger  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.662A | Nondisplaced fracture of distal phalanx of right middle finger, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.662B | Nondisplaced fracture of distal phalanx of right middle finger, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.662D | Nondisplaced fracture of distal phalanx of right middle finger, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.662G | Nondisplaced fracture of distal phalanx of right middle finger, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.662K | Nondisplaced fracture of distal phalanx of right middle finger, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.662P | Nondisplaced fracture of distal phalanx of right middle finger, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.662S | Nondisplaced fracture of distal phalanx of right middle finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.663  | Nondisplaced fracture of distal phalanx of left middle finger  | Diagnosis     | ICD-10-CM |
| S62.663A | Nondisplaced fracture of distal phalanx of left middle finger, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.663B | Nondisplaced fracture of distal phalanx of left middle finger, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.663D | Nondisplaced fracture of distal phalanx of left middle finger, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.663G | Nondisplaced fracture of distal phalanx of left middle finger, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.663K | Nondisplaced fracture of distal phalanx of left middle finger, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.663P | Nondisplaced fracture of distal phalanx of left middle finger, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.663S | Nondisplaced fracture of distal phalanx of left middle finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.664  | Nondisplaced fracture of distal phalanx of right ring finger   | Diagnosis     | ICD-10-CM |
| S62.664A | Nondisplaced fracture of distal phalanx of right ring finger, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S62.664B | Nondisplaced fracture of distal phalanx of right ring finger, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S62.664D | Nondisplaced fracture of distal phalanx of right ring finger, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S62.664G | Nondisplaced fracture of distal phalanx of right ring finger, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S62.664K | Nondisplaced fracture of distal phalanx of right ring finger, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S62.664P | Nondisplaced fracture of distal phalanx of right ring finger, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |
| S62.664S | Nondisplaced fracture of distal phalanx of right ring finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.665  | Nondisplaced fracture of distal phalanx of left ring finger  | Diagnosis     | ICD-10-CM |
| S62.665A | Nondisplaced fracture of distal phalanx of left ring finger, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S62.665B | Nondisplaced fracture of distal phalanx of left ring finger, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S62.665D | Nondisplaced fracture of distal phalanx of left ring finger, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S62.665G | Nondisplaced fracture of distal phalanx of left ring finger, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S62.665K | Nondisplaced fracture of distal phalanx of left ring finger, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S62.665P | Nondisplaced fracture of distal phalanx of left ring finger, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S62.665S | Nondisplaced fracture of distal phalanx of left ring finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.666  | Nondisplaced fracture of distal phalanx of right little finger   | Diagnosis     | ICD-10-CM |
| S62.666A | Nondisplaced fracture of distal phalanx of right little finger, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S62.666B | Nondisplaced fracture of distal phalanx of right little finger, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S62.666D | Nondisplaced fracture of distal phalanx of right little finger, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.666G | Nondisplaced fracture of distal phalanx of right little finger, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.666K | Nondisplaced fracture of distal phalanx of right little finger, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.666P | Nondisplaced fracture of distal phalanx of right little finger, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.666S | Nondisplaced fracture of distal phalanx of right little finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.667  | Nondisplaced fracture of distal phalanx of left little finger  | Diagnosis     | ICD-10-CM |
| S62.667A | Nondisplaced fracture of distal phalanx of left little finger, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.667B | Nondisplaced fracture of distal phalanx of left little finger, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S62.667D | Nondisplaced fracture of distal phalanx of left little finger, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S62.667G | Nondisplaced fracture of distal phalanx of left little finger, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S62.667K | Nondisplaced fracture of distal phalanx of left little finger, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S62.667P | Nondisplaced fracture of distal phalanx of left little finger, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S62.667S | Nondisplaced fracture of distal phalanx of left little finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.668  | Nondisplaced fracture of distal phalanx of other finger  | Diagnosis     | ICD-10-CM |
| S62.668A | Nondisplaced fracture of distal phalanx of other finger, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S62.668B | Nondisplaced fracture of distal phalanx of other finger, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S62.668D | Nondisplaced fracture of distal phalanx of other finger, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S62.668G | Nondisplaced fracture of distal phalanx of other finger, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S62.668K | Nondisplaced fracture of distal phalanx of other finger, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S62.668P | Nondisplaced fracture of distal phalanx of other finger, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S62.668S | Nondisplaced fracture of distal phalanx of other finger, sequela   | Diagnosis     | ICD-10-CM |
| S62.669  | Nondisplaced fracture of distal phalanx of unspecified finger  | Diagnosis     | ICD-10-CM |
| S62.669A | Nondisplaced fracture of distal phalanx of unspecified finger, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S62.669B | Nondisplaced fracture of distal phalanx of unspecified finger, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S62.669D | Nondisplaced fracture of distal phalanx of unspecified finger, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S62.669G | Nondisplaced fracture of distal phalanx of unspecified finger, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S62.669K | Nondisplaced fracture of distal phalanx of unspecified finger, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S62.669P | Nondisplaced fracture of distal phalanx of unspecified finger, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S62.669S | Nondisplaced fracture of distal phalanx of unspecified finger, sequela  | Diagnosis     | ICD-10-CM |
| S62.9    | Unspecified fracture of wrist and hand  | Diagnosis     | ICD-10-CM |
| S62.90   | Unspecified fracture of unspecified wrist and hand  | Diagnosis     | ICD-10-CM |
| S62.90XA | Unspecified fracture of unspecified wrist and hand, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S62.90XB | Unspecified fracture of unspecified wrist and hand, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S62.90XD | Unspecified fracture of unspecified wrist and hand, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S62.90XG | Unspecified fracture of unspecified wrist and hand, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S62.90XK | Unspecified fracture of unspecified wrist and hand, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S62.90XP | Unspecified fracture of unspecified wrist and hand, subsequent encounter for fracture with malunion                   | Diagnosis     | ICD-10-CM |
| S62.90XS | Unspecified fracture of unspecified wrist and hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.91   | Unspecified fracture of right wrist and hand  | Diagnosis     | ICD-10-CM |
| S62.91XA | Unspecified fracture of right wrist and hand, initial encounter for closed fracture                                   | Diagnosis     | ICD-10-CM |
| S62.91XB | Unspecified fracture of right wrist and hand, initial encounter for open fracture                                     | Diagnosis     | ICD-10-CM |
| S62.91XD | Unspecified fracture of right wrist and hand, subsequent encounter for fracture with routine healing                  | Diagnosis     | ICD-10-CM |
| S62.91XG | Unspecified fracture of right wrist and hand, subsequent encounter for fracture with delayed healing                  | Diagnosis     | ICD-10-CM |
| S62.91XK | Unspecified fracture of right wrist and hand, subsequent encounter for fracture with nonunion                         | Diagnosis     | ICD-10-CM |
| S62.91XP | Unspecified fracture of right wrist and hand, subsequent encounter for fracture with malunion                         | Diagnosis     | ICD-10-CM |
| S62.91XS | Unspecified fracture of right wrist and hand, sequela   | Diagnosis     | ICD-10-CM |
| S62.92   | Unspecified fracture of left wrist and hand   | Diagnosis     | ICD-10-CM |
| S62.92XA | Unspecified fracture of left wrist and hand, initial encounter for closed fracture                                    | Diagnosis     | ICD-10-CM |
| S62.92XB | Unspecified fracture of left wrist and hand, initial encounter for open fracture                                      | Diagnosis     | ICD-10-CM |
| S62.92XD | Unspecified fracture of left wrist and hand, subsequent encounter for fracture with routine healing                   | Diagnosis     | ICD-10-CM |
| S62.92XG | Unspecified fracture of left wrist and hand, subsequent encounter for fracture with delayed healing                   | Diagnosis     | ICD-10-CM |
| S62.92XK | Unspecified fracture of left wrist and hand, subsequent encounter for fracture with nonunion                          | Diagnosis     | ICD-10-CM |
| S62.92XP | Unspecified fracture of left wrist and hand, subsequent encounter for fracture with malunion                          | Diagnosis     | ICD-10-CM |
| S62.92XS | Unspecified fracture of left wrist and hand, sequela  | Diagnosis     | ICD-10-CM |
| S63      | Dislocation and sprain of joints and ligaments at wrist and hand level  | Diagnosis     | ICD-10-CM |
| S63.0    | Subluxation and dislocation of wrist and hand joints  | Diagnosis     | ICD-10-CM |
| S63.00   | Unspecified subluxation and dislocation of wrist and hand   | Diagnosis     | ICD-10-CM |
| S63.001  | Unspecified subluxation of right wrist and hand   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S63.001A | Unspecified subluxation of right wrist and hand, initial encounter                | Diagnosis     | ICD-10-CM |
| S63.001D | Unspecified subluxation of right wrist and hand, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S63.001S | Unspecified subluxation of right wrist and hand, sequela                          | Diagnosis     | ICD-10-CM |
| S63.002  | Unspecified subluxation of left wrist and hand                                    | Diagnosis     | ICD-10-CM |
| S63.002A | Unspecified subluxation of left wrist and hand, initial encounter                 | Diagnosis     | ICD-10-CM |
| S63.002D | Unspecified subluxation of left wrist and hand, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S63.002S | Unspecified subluxation of left wrist and hand, sequela                           | Diagnosis     | ICD-10-CM |
| S63.003  | Unspecified subluxation of unspecified wrist and hand                             | Diagnosis     | ICD-10-CM |
| S63.003A | Unspecified subluxation of unspecified wrist and hand, initial encounter          | Diagnosis     | ICD-10-CM |
| S63.003D | Unspecified subluxation of unspecified wrist and hand, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S63.003S | Unspecified subluxation of unspecified wrist and hand, sequela                    | Diagnosis     | ICD-10-CM |
| S63.004  | Unspecified dislocation of right wrist and hand                                   | Diagnosis     | ICD-10-CM |
| S63.004A | Unspecified dislocation of right wrist and hand, initial encounter                | Diagnosis     | ICD-10-CM |
| S63.004D | Unspecified dislocation of right wrist and hand, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S63.004S | Unspecified dislocation of right wrist and hand, sequela                          | Diagnosis     | ICD-10-CM |
| S63.005  | Unspecified dislocation of left wrist and hand                                    | Diagnosis     | ICD-10-CM |
| S63.005A | Unspecified dislocation of left wrist and hand, initial encounter                 | Diagnosis     | ICD-10-CM |
| S63.005D | Unspecified dislocation of left wrist and hand, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S63.005S | Unspecified dislocation of left wrist and hand, sequela                           | Diagnosis     | ICD-10-CM |
| S63.006  | Unspecified dislocation of unspecified wrist and hand                             | Diagnosis     | ICD-10-CM |
| S63.006A | Unspecified dislocation of unspecified wrist and hand, initial encounter          | Diagnosis     | ICD-10-CM |
| S63.006D | Unspecified dislocation of unspecified wrist and hand, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S63.006S | Unspecified dislocation of unspecified wrist and hand, sequela                    | Diagnosis     | ICD-10-CM |
| S63.01   | Subluxation and dislocation of distal radioulnar joint                            | Diagnosis     | ICD-10-CM |
| S63.011  | Subluxation of distal radioulnar joint of right wrist                             | Diagnosis     | ICD-10-CM |
| S63.011A | Subluxation of distal radioulnar joint of right wrist, initial encounter          | Diagnosis     | ICD-10-CM |
| S63.011D | Subluxation of distal radioulnar joint of right wrist, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S63.011S | Subluxation of distal radioulnar joint of right wrist, sequela                    | Diagnosis     | ICD-10-CM |
| S63.012  | Subluxation of distal radioulnar joint of left wrist                              | Diagnosis     | ICD-10-CM |
| S63.012A | Subluxation of distal radioulnar joint of left wrist, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.012D | Subluxation of distal radioulnar joint of left wrist, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.012S | Subluxation of distal radioulnar joint of left wrist, sequela                     | Diagnosis     | ICD-10-CM |
| S63.013  | Subluxation of distal radioulnar joint of unspecified wrist                       | Diagnosis     | ICD-10-CM |
| S63.013A | Subluxation of distal radioulnar joint of unspecified wrist, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.013D | Subluxation of distal radioulnar joint of unspecified wrist, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.013S | Subluxation of distal radioulnar joint of unspecified wrist, sequela              | Diagnosis     | ICD-10-CM |
| S63.014  | Dislocation of distal radioulnar joint of right wrist                             | Diagnosis     | ICD-10-CM |
| S63.014A | Dislocation of distal radioulnar joint of right wrist, initial encounter          | Diagnosis     | ICD-10-CM |
| S63.014D | Dislocation of distal radioulnar joint of right wrist, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S63.014S | Dislocation of distal radioulnar joint of right wrist, sequela                    | Diagnosis     | ICD-10-CM |
| S63.015  | Dislocation of distal radioulnar joint of left wrist                              | Diagnosis     | ICD-10-CM |
| S63.015A | Dislocation of distal radioulnar joint of left wrist, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.015D | Dislocation of distal radioulnar joint of left wrist, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.015S | Dislocation of distal radioulnar joint of left wrist, sequela                     | Diagnosis     | ICD-10-CM |
| S63.016  | Dislocation of distal radioulnar joint of unspecified wrist                       | Diagnosis     | ICD-10-CM |
| S63.016A | Dislocation of distal radioulnar joint of unspecified wrist, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.016D | Dislocation of distal radioulnar joint of unspecified wrist, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.016S | Dislocation of distal radioulnar joint of unspecified wrist, sequela              | Diagnosis     | ICD-10-CM |
| S63.02   | Subluxation and dislocation of radiocarpal joint                                  | Diagnosis     | ICD-10-CM |
| S63.021  | Subluxation of radiocarpal joint of right wrist                                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S63.021A | Subluxation of radiocarpal joint of right wrist, initial encounter          | Diagnosis     | ICD-10-CM |
| S63.021D | Subluxation of radiocarpal joint of right wrist, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S63.021S | Subluxation of radiocarpal joint of right wrist, sequela                    | Diagnosis     | ICD-10-CM |
| S63.022  | Subluxation of radiocarpal joint of left wrist                              | Diagnosis     | ICD-10-CM |
| S63.022A | Subluxation of radiocarpal joint of left wrist, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.022D | Subluxation of radiocarpal joint of left wrist, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.022S | Subluxation of radiocarpal joint of left wrist, sequela                     | Diagnosis     | ICD-10-CM |
| S63.023  | Subluxation of radiocarpal joint of unspecified wrist                       | Diagnosis     | ICD-10-CM |
| S63.023A | Subluxation of radiocarpal joint of unspecified wrist, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.023D | Subluxation of radiocarpal joint of unspecified wrist, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.023S | Subluxation of radiocarpal joint of unspecified wrist, sequela              | Diagnosis     | ICD-10-CM |
| S63.024  | Dislocation of radiocarpal joint of right wrist                             | Diagnosis     | ICD-10-CM |
| S63.024A | Dislocation of radiocarpal joint of right wrist, initial encounter          | Diagnosis     | ICD-10-CM |
| S63.024D | Dislocation of radiocarpal joint of right wrist, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S63.024S | Dislocation of radiocarpal joint of right wrist, sequela                    | Diagnosis     | ICD-10-CM |
| S63.025  | Dislocation of radiocarpal joint of left wrist                              | Diagnosis     | ICD-10-CM |
| S63.025A | Dislocation of radiocarpal joint of left wrist, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.025D | Dislocation of radiocarpal joint of left wrist, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.025S | Dislocation of radiocarpal joint of left wrist, sequela                     | Diagnosis     | ICD-10-CM |
| S63.026  | Dislocation of radiocarpal joint of unspecified wrist                       | Diagnosis     | ICD-10-CM |
| S63.026A | Dislocation of radiocarpal joint of unspecified wrist, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.026D | Dislocation of radiocarpal joint of unspecified wrist, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.026S | Dislocation of radiocarpal joint of unspecified wrist, sequela              | Diagnosis     | ICD-10-CM |
| S63.03   | Subluxation and dislocation of midcarpal joint                              | Diagnosis     | ICD-10-CM |
| S63.031  | Subluxation of midcarpal joint of right wrist                               | Diagnosis     | ICD-10-CM |
| S63.031A | Subluxation of midcarpal joint of right wrist, initial encounter            | Diagnosis     | ICD-10-CM |
| S63.031D | Subluxation of midcarpal joint of right wrist, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S63.031S | Subluxation of midcarpal joint of right wrist, sequela                      | Diagnosis     | ICD-10-CM |
| S63.032  | Subluxation of midcarpal joint of left wrist                                | Diagnosis     | ICD-10-CM |
| S63.032A | Subluxation of midcarpal joint of left wrist, initial encounter             | Diagnosis     | ICD-10-CM |
| S63.032D | Subluxation of midcarpal joint of left wrist, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S63.032S | Subluxation of midcarpal joint of left wrist, sequela                       | Diagnosis     | ICD-10-CM |
| S63.033  | Subluxation of midcarpal joint of unspecified wrist                         | Diagnosis     | ICD-10-CM |
| S63.033A | Subluxation of midcarpal joint of unspecified wrist, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.033D | Subluxation of midcarpal joint of unspecified wrist, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.033S | Subluxation of midcarpal joint of unspecified wrist, sequela                | Diagnosis     | ICD-10-CM |
| S63.034  | Dislocation of midcarpal joint of right wrist                               | Diagnosis     | ICD-10-CM |
| S63.034A | Dislocation of midcarpal joint of right wrist, initial encounter            | Diagnosis     | ICD-10-CM |
| S63.034D | Dislocation of midcarpal joint of right wrist, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S63.034S | Dislocation of midcarpal joint of right wrist, sequela                      | Diagnosis     | ICD-10-CM |
| S63.035  | Dislocation of midcarpal joint of left wrist                                | Diagnosis     | ICD-10-CM |
| S63.035A | Dislocation of midcarpal joint of left wrist, initial encounter             | Diagnosis     | ICD-10-CM |
| S63.035D | Dislocation of midcarpal joint of left wrist, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S63.035S | Dislocation of midcarpal joint of left wrist, sequela                       | Diagnosis     | ICD-10-CM |
| S63.036  | Dislocation of midcarpal joint of unspecified wrist                         | Diagnosis     | ICD-10-CM |
| S63.036A | Dislocation of midcarpal joint of unspecified wrist, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.036D | Dislocation of midcarpal joint of unspecified wrist, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.036S | Dislocation of midcarpal joint of unspecified wrist, sequela                | Diagnosis     | ICD-10-CM |
| S63.04   | Subluxation and dislocation of carpometacarpal joint of thumb               | Diagnosis     | ICD-10-CM |
| S63.041  | Subluxation of carpometacarpal joint of right thumb                         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S63.041A | Subluxation of carpometacarpal joint of right thumb, initial encounter               | Diagnosis     | ICD-10-CM |
| S63.041D | Subluxation of carpometacarpal joint of right thumb, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S63.041S | Subluxation of carpometacarpal joint of right thumb, sequela                         | Diagnosis     | ICD-10-CM |
| S63.042  | Subluxation of carpometacarpal joint of left thumb                                   | Diagnosis     | ICD-10-CM |
| S63.042A | Subluxation of carpometacarpal joint of left thumb, initial encounter                | Diagnosis     | ICD-10-CM |
| S63.042D | Subluxation of carpometacarpal joint of left thumb, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S63.042S | Subluxation of carpometacarpal joint of left thumb, sequela                          | Diagnosis     | ICD-10-CM |
| S63.043  | Subluxation of carpometacarpal joint of unspecified thumb                            | Diagnosis     | ICD-10-CM |
| S63.043A | Subluxation of carpometacarpal joint of unspecified thumb, initial encounter         | Diagnosis     | ICD-10-CM |
| S63.043D | Subluxation of carpometacarpal joint of unspecified thumb, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S63.043S | Subluxation of carpometacarpal joint of unspecified thumb, sequela                   | Diagnosis     | ICD-10-CM |
| S63.044  | Dislocation of carpometacarpal joint of right thumb                                  | Diagnosis     | ICD-10-CM |
| S63.044A | Dislocation of carpometacarpal joint of right thumb, initial encounter               | Diagnosis     | ICD-10-CM |
| S63.044D | Dislocation of carpometacarpal joint of right thumb, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S63.044S | Dislocation of carpometacarpal joint of right thumb, sequela                         | Diagnosis     | ICD-10-CM |
| S63.045  | Dislocation of carpometacarpal joint of left thumb                                   | Diagnosis     | ICD-10-CM |
| S63.045A | Dislocation of carpometacarpal joint of left thumb, initial encounter                | Diagnosis     | ICD-10-CM |
| S63.045D | Dislocation of carpometacarpal joint of left thumb, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S63.045S | Dislocation of carpometacarpal joint of left thumb, sequela                          | Diagnosis     | ICD-10-CM |
| S63.046  | Dislocation of carpometacarpal joint of unspecified thumb                            | Diagnosis     | ICD-10-CM |
| S63.046A | Dislocation of carpometacarpal joint of unspecified thumb, initial encounter         | Diagnosis     | ICD-10-CM |
| S63.046D | Dislocation of carpometacarpal joint of unspecified thumb, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S63.046S | Dislocation of carpometacarpal joint of unspecified thumb, sequela                   | Diagnosis     | ICD-10-CM |
| S63.05   | Subluxation and dislocation of other carpometacarpal joint                           | Diagnosis     | ICD-10-CM |
| S63.051  | Subluxation of other carpometacarpal joint of right hand                             | Diagnosis     | ICD-10-CM |
| S63.051A | Subluxation of other carpometacarpal joint of right hand, initial encounter          | Diagnosis     | ICD-10-CM |
| S63.051D | Subluxation of other carpometacarpal joint of right hand, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S63.051S | Subluxation of other carpometacarpal joint of right hand, sequela                    | Diagnosis     | ICD-10-CM |
| S63.052  | Subluxation of other carpometacarpal joint of left hand                              | Diagnosis     | ICD-10-CM |
| S63.052A | Subluxation of other carpometacarpal joint of left hand, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.052D | Subluxation of other carpometacarpal joint of left hand, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.052S | Subluxation of other carpometacarpal joint of left hand, sequela                     | Diagnosis     | ICD-10-CM |
| S63.053  | Subluxation of other carpometacarpal joint of unspecified hand                       | Diagnosis     | ICD-10-CM |
| S63.053A | Subluxation of other carpometacarpal joint of unspecified hand, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.053D | Subluxation of other carpometacarpal joint of unspecified hand, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.053S | Subluxation of other carpometacarpal joint of unspecified hand, sequela              | Diagnosis     | ICD-10-CM |
| S63.054  | Dislocation of other carpometacarpal joint of right hand                             | Diagnosis     | ICD-10-CM |
| S63.054A | Dislocation of other carpometacarpal joint of right hand, initial encounter          | Diagnosis     | ICD-10-CM |
| S63.054D | Dislocation of other carpometacarpal joint of right hand, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S63.054S | Dislocation of other carpometacarpal joint of right hand, sequela                    | Diagnosis     | ICD-10-CM |
| S63.055  | Dislocation of other carpometacarpal joint of left hand                              | Diagnosis     | ICD-10-CM |
| S63.055A | Dislocation of other carpometacarpal joint of left hand, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.055D | Dislocation of other carpometacarpal joint of left hand, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.055S | Dislocation of other carpometacarpal joint of left hand, sequela                     | Diagnosis     | ICD-10-CM |
| S63.056  | Dislocation of other carpometacarpal joint of unspecified hand                       | Diagnosis     | ICD-10-CM |
| S63.056A | Dislocation of other carpometacarpal joint of unspecified hand, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.056D | Dislocation of other carpometacarpal joint of unspecified hand, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.056S | Dislocation of other carpometacarpal joint of unspecified hand, sequela              | Diagnosis     | ICD-10-CM |
| S63.06   | Subluxation and dislocation of metacarpal (bone), proximal end                       | Diagnosis     | ICD-10-CM |
| S63.061  | Subluxation of metacarpal (bone), proximal end of right hand                         | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S63.061A | Subluxation of metacarpal (bone), proximal end of right hand, initial encounter          | Diagnosis     | ICD-10-CM |
| S63.061D | Subluxation of metacarpal (bone), proximal end of right hand, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S63.061S | Subluxation of metacarpal (bone), proximal end of right hand, sequela                    | Diagnosis     | ICD-10-CM |
| S63.062  | Subluxation of metacarpal (bone), proximal end of left hand                              | Diagnosis     | ICD-10-CM |
| S63.062A | Subluxation of metacarpal (bone), proximal end of left hand, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.062D | Subluxation of metacarpal (bone), proximal end of left hand, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.062S | Subluxation of metacarpal (bone), proximal end of left hand, sequela                     | Diagnosis     | ICD-10-CM |
| S63.063  | Subluxation of metacarpal (bone), proximal end of unspecified hand                       | Diagnosis     | ICD-10-CM |
| S63.063A | Subluxation of metacarpal (bone), proximal end of unspecified hand, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.063D | Subluxation of metacarpal (bone), proximal end of unspecified hand, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.063S | Subluxation of metacarpal (bone), proximal end of unspecified hand, sequela              | Diagnosis     | ICD-10-CM |
| S63.064  | Dislocation of metacarpal (bone), proximal end of right hand                             | Diagnosis     | ICD-10-CM |
| S63.064A | Dislocation of metacarpal (bone), proximal end of right hand, initial encounter          | Diagnosis     | ICD-10-CM |
| S63.064D | Dislocation of metacarpal (bone), proximal end of right hand, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S63.064S | Dislocation of metacarpal (bone), proximal end of right hand, sequela                    | Diagnosis     | ICD-10-CM |
| S63.065  | Dislocation of metacarpal (bone), proximal end of left hand                              | Diagnosis     | ICD-10-CM |
| S63.065A | Dislocation of metacarpal (bone), proximal end of left hand, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.065D | Dislocation of metacarpal (bone), proximal end of left hand, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.065S | Dislocation of metacarpal (bone), proximal end of left hand, sequela                     | Diagnosis     | ICD-10-CM |
| S63.066  | Dislocation of metacarpal (bone), proximal end of unspecified hand                       | Diagnosis     | ICD-10-CM |
| S63.066A | Dislocation of metacarpal (bone), proximal end of unspecified hand, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.066D | Dislocation of metacarpal (bone), proximal end of unspecified hand, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.066S | Dislocation of metacarpal (bone), proximal end of unspecified hand, sequela              | Diagnosis     | ICD-10-CM |
| S63.07   | Subluxation and dislocation of distal end of ulna  | Diagnosis     | ICD-10-CM |
| S63.071  | Subluxation of distal end of right ulna  | Diagnosis     | ICD-10-CM |
| S63.071A | Subluxation of distal end of right ulna, initial encounter                               | Diagnosis     | ICD-10-CM |
| S63.071D | Subluxation of distal end of right ulna, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S63.071S | Subluxation of distal end of right ulna, sequela   | Diagnosis     | ICD-10-CM |
| S63.072  | Subluxation of distal end of left ulna   | Diagnosis     | ICD-10-CM |
| S63.072A | Subluxation of distal end of left ulna, initial encounter                                | Diagnosis     | ICD-10-CM |
| S63.072D | Subluxation of distal end of left ulna, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S63.072S | Subluxation of distal end of left ulna, sequela  | Diagnosis     | ICD-10-CM |
| S63.073  | Subluxation of distal end of unspecified ulna  | Diagnosis     | ICD-10-CM |
| S63.073A | Subluxation of distal end of unspecified ulna, initial encounter                         | Diagnosis     | ICD-10-CM |
| S63.073D | Subluxation of distal end of unspecified ulna, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S63.073S | Subluxation of distal end of unspecified ulna, sequela                                   | Diagnosis     | ICD-10-CM |
| S63.074  | Dislocation of distal end of right ulna  | Diagnosis     | ICD-10-CM |
| S63.074A | Dislocation of distal end of right ulna, initial encounter                               | Diagnosis     | ICD-10-CM |
| S63.074D | Dislocation of distal end of right ulna, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S63.074S | Dislocation of distal end of right ulna, sequela   | Diagnosis     | ICD-10-CM |
| S63.075  | Dislocation of distal end of left ulna   | Diagnosis     | ICD-10-CM |
| S63.075A | Dislocation of distal end of left ulna, initial encounter                                | Diagnosis     | ICD-10-CM |
| S63.075D | Dislocation of distal end of left ulna, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S63.075S | Dislocation of distal end of left ulna, sequela  | Diagnosis     | ICD-10-CM |
| S63.076  | Dislocation of distal end of unspecified ulna  | Diagnosis     | ICD-10-CM |
| S63.076A | Dislocation of distal end of unspecified ulna, initial encounter                         | Diagnosis     | ICD-10-CM |
| S63.076D | Dislocation of distal end of unspecified ulna, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S63.076S | Dislocation of distal end of unspecified ulna, sequela                                   | Diagnosis     | ICD-10-CM |
| S63.09   | Other subluxation and dislocation of wrist and hand                                      | Diagnosis     | ICD-10-CM |
| S63.091  | Other subluxation of right wrist and hand  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S63.091A | Other subluxation of right wrist and hand, initial encounter          | Diagnosis     | ICD-10-CM |
| S63.091D | Other subluxation of right wrist and hand, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S63.091S | Other subluxation of right wrist and hand, sequela                    | Diagnosis     | ICD-10-CM |
| S63.092  | Other subluxation of left wrist and hand                              | Diagnosis     | ICD-10-CM |
| S63.092A | Other subluxation of left wrist and hand, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.092D | Other subluxation of left wrist and hand, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.092S | Other subluxation of left wrist and hand, sequela                     | Diagnosis     | ICD-10-CM |
| S63.093  | Other subluxation of unspecified wrist and hand                       | Diagnosis     | ICD-10-CM |
| S63.093A | Other subluxation of unspecified wrist and hand, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.093D | Other subluxation of unspecified wrist and hand, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.093S | Other subluxation of unspecified wrist and hand, sequela              | Diagnosis     | ICD-10-CM |
| S63.094  | Other dislocation of right wrist and hand                             | Diagnosis     | ICD-10-CM |
| S63.094A | Other dislocation of right wrist and hand, initial encounter          | Diagnosis     | ICD-10-CM |
| S63.094D | Other dislocation of right wrist and hand, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S63.094S | Other dislocation of right wrist and hand, sequela                    | Diagnosis     | ICD-10-CM |
| S63.095  | Other dislocation of left wrist and hand                              | Diagnosis     | ICD-10-CM |
| S63.095A | Other dislocation of left wrist and hand, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.095D | Other dislocation of left wrist and hand, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.095S | Other dislocation of left wrist and hand, sequela                     | Diagnosis     | ICD-10-CM |
| S63.096  | Other dislocation of unspecified wrist and hand                       | Diagnosis     | ICD-10-CM |
| S63.096A | Other dislocation of unspecified wrist and hand, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.096D | Other dislocation of unspecified wrist and hand, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.096S | Other dislocation of unspecified wrist and hand, sequela              | Diagnosis     | ICD-10-CM |
| S63.1    | Subluxation and dislocation of thumb                                  | Diagnosis     | ICD-10-CM |
| S63.10   | Unspecified subluxation and dislocation of thumb                      | Diagnosis     | ICD-10-CM |
| S63.101  | Unspecified subluxation of right thumb                                | Diagnosis     | ICD-10-CM |
| S63.101A | Unspecified subluxation of right thumb, initial encounter             | Diagnosis     | ICD-10-CM |
| S63.101D | Unspecified subluxation of right thumb, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S63.101S | Unspecified subluxation of right thumb, sequela                       | Diagnosis     | ICD-10-CM |
| S63.102  | Unspecified subluxation of left thumb                                 | Diagnosis     | ICD-10-CM |
| S63.102A | Unspecified subluxation of left thumb, initial encounter              | Diagnosis     | ICD-10-CM |
| S63.102D | Unspecified subluxation of left thumb, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S63.102S | Unspecified subluxation of left thumb, sequela                        | Diagnosis     | ICD-10-CM |
| S63.103  | Unspecified subluxation of unspecified thumb                          | Diagnosis     | ICD-10-CM |
| S63.103A | Unspecified subluxation of unspecified thumb, initial encounter       | Diagnosis     | ICD-10-CM |
| S63.103D | Unspecified subluxation of unspecified thumb, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S63.103S | Unspecified subluxation of unspecified thumb, sequela                 | Diagnosis     | ICD-10-CM |
| S63.104  | Unspecified dislocation of right thumb                                | Diagnosis     | ICD-10-CM |
| S63.104A | Unspecified dislocation of right thumb, initial encounter             | Diagnosis     | ICD-10-CM |
| S63.104D | Unspecified dislocation of right thumb, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S63.104S | Unspecified dislocation of right thumb, sequela                       | Diagnosis     | ICD-10-CM |
| S63.105  | Unspecified dislocation of left thumb                                 | Diagnosis     | ICD-10-CM |
| S63.105A | Unspecified dislocation of left thumb, initial encounter              | Diagnosis     | ICD-10-CM |
| S63.105D | Unspecified dislocation of left thumb, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S63.105S | Unspecified dislocation of left thumb, sequela                        | Diagnosis     | ICD-10-CM |
| S63.106  | Unspecified dislocation of unspecified thumb                          | Diagnosis     | ICD-10-CM |
| S63.106A | Unspecified dislocation of unspecified thumb, initial encounter       | Diagnosis     | ICD-10-CM |
| S63.106D | Unspecified dislocation of unspecified thumb, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S63.106S | Unspecified dislocation of unspecified thumb, sequela                 | Diagnosis     | ICD-10-CM |
| S63.11   | Subluxation and dislocation of metacarpophalangeal joint of thumb     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S63.111  | Subluxation of metacarpophalangeal joint of right thumb                             | Diagnosis     | ICD-10-CM |
| S63.111A | Subluxation of metacarpophalangeal joint of right thumb, initial encounter          | Diagnosis     | ICD-10-CM |
| S63.111D | Subluxation of metacarpophalangeal joint of right thumb, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S63.111S | Subluxation of metacarpophalangeal joint of right thumb, sequela                    | Diagnosis     | ICD-10-CM |
| S63.112  | Subluxation of metacarpophalangeal joint of left thumb                              | Diagnosis     | ICD-10-CM |
| S63.112A | Subluxation of metacarpophalangeal joint of left thumb, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.112D | Subluxation of metacarpophalangeal joint of left thumb, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.112S | Subluxation of metacarpophalangeal joint of left thumb, sequela                     | Diagnosis     | ICD-10-CM |
| S63.113  | Subluxation of metacarpophalangeal joint of unspecified thumb                       | Diagnosis     | ICD-10-CM |
| S63.113A | Subluxation of metacarpophalangeal joint of unspecified thumb, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.113D | Subluxation of metacarpophalangeal joint of unspecified thumb, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.113S | Subluxation of metacarpophalangeal joint of unspecified thumb, sequela              | Diagnosis     | ICD-10-CM |
| S63.114  | Dislocation of metacarpophalangeal joint of right thumb                             | Diagnosis     | ICD-10-CM |
| S63.114A | Dislocation of metacarpophalangeal joint of right thumb, initial encounter          | Diagnosis     | ICD-10-CM |
| S63.114D | Dislocation of metacarpophalangeal joint of right thumb, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S63.114S | Dislocation of metacarpophalangeal joint of right thumb, sequela                    | Diagnosis     | ICD-10-CM |
| S63.115  | Dislocation of metacarpophalangeal joint of left thumb                              | Diagnosis     | ICD-10-CM |
| S63.115A | Dislocation of metacarpophalangeal joint of left thumb, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.115D | Dislocation of metacarpophalangeal joint of left thumb, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.115S | Dislocation of metacarpophalangeal joint of left thumb, sequela                     | Diagnosis     | ICD-10-CM |
| S63.116  | Dislocation of metacarpophalangeal joint of unspecified thumb                       | Diagnosis     | ICD-10-CM |
| S63.116A | Dislocation of metacarpophalangeal joint of unspecified thumb, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.116D | Dislocation of metacarpophalangeal joint of unspecified thumb, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.116S | Dislocation of metacarpophalangeal joint of unspecified thumb, sequela              | Diagnosis     | ICD-10-CM |
| S63.12   | Subluxation and dislocation of interphalangeal joint of thumb                       | Diagnosis     | ICD-10-CM |
| S63.121  | Subluxation of interphalangeal joint of right thumb                                 | Diagnosis     | ICD-10-CM |
| S63.121A | Subluxation of interphalangeal joint of right thumb, initial encounter              | Diagnosis     | ICD-10-CM |
| S63.121D | Subluxation of interphalangeal joint of right thumb, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S63.121S | Subluxation of interphalangeal joint of right thumb, sequela                        | Diagnosis     | ICD-10-CM |
| S63.122  | Subluxation of interphalangeal joint of left thumb                                  | Diagnosis     | ICD-10-CM |
| S63.122A | Subluxation of interphalangeal joint of left thumb, initial encounter               | Diagnosis     | ICD-10-CM |
| S63.122D | Subluxation of interphalangeal joint of left thumb, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S63.122S | Subluxation of interphalangeal joint of left thumb, sequela                         | Diagnosis     | ICD-10-CM |
| S63.123  | Subluxation of interphalangeal joint of unspecified thumb                           | Diagnosis     | ICD-10-CM |
| S63.123A | Subluxation of interphalangeal joint of unspecified thumb, initial encounter        | Diagnosis     | ICD-10-CM |
| S63.123D | Subluxation of interphalangeal joint of unspecified thumb, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S63.123S | Subluxation of interphalangeal joint of unspecified thumb, sequela                  | Diagnosis     | ICD-10-CM |
| S63.124  | Dislocation of interphalangeal joint of right thumb                                 | Diagnosis     | ICD-10-CM |
| S63.124A | Dislocation of interphalangeal joint of right thumb, initial encounter              | Diagnosis     | ICD-10-CM |
| S63.124D | Dislocation of interphalangeal joint of right thumb, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S63.124S | Dislocation of interphalangeal joint of right thumb, sequela                        | Diagnosis     | ICD-10-CM |
| S63.125  | Dislocation of interphalangeal joint of left thumb                                  | Diagnosis     | ICD-10-CM |
| S63.125A | Dislocation of interphalangeal joint of left thumb, initial encounter               | Diagnosis     | ICD-10-CM |
| S63.125D | Dislocation of interphalangeal joint of left thumb, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S63.125S | Dislocation of interphalangeal joint of left thumb, sequela                         | Diagnosis     | ICD-10-CM |
| S63.126  | Dislocation of interphalangeal joint of unspecified thumb                           | Diagnosis     | ICD-10-CM |
| S63.126A | Dislocation of interphalangeal joint of unspecified thumb, initial encounter        | Diagnosis     | ICD-10-CM |
| S63.126D | Dislocation of interphalangeal joint of unspecified thumb, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S63.126S | Dislocation of interphalangeal joint of unspecified thumb, sequela                  | Diagnosis     | ICD-10-CM |
| S63.13   | Subluxation and dislocation of proximal interphalangeal joint of thumb              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S63.131  | Subluxation of proximal interphalangeal joint of right thumb                             | Diagnosis     | ICD-10-CM |
| S63.131A | Subluxation of proximal interphalangeal joint of right thumb, initial encounter          | Diagnosis     | ICD-10-CM |
| S63.131D | Subluxation of proximal interphalangeal joint of right thumb, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S63.131S | Subluxation of proximal interphalangeal joint of right thumb, sequela                    | Diagnosis     | ICD-10-CM |
| S63.132  | Subluxation of proximal interphalangeal joint of left thumb                              | Diagnosis     | ICD-10-CM |
| S63.132A | Subluxation of proximal interphalangeal joint of left thumb, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.132D | Subluxation of proximal interphalangeal joint of left thumb, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.132S | Subluxation of proximal interphalangeal joint of left thumb, sequela                     | Diagnosis     | ICD-10-CM |
| S63.133  | Subluxation of proximal interphalangeal joint of unspecified thumb                       | Diagnosis     | ICD-10-CM |
| S63.133A | Subluxation of proximal interphalangeal joint of unspecified thumb, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.133D | Subluxation of proximal interphalangeal joint of unspecified thumb, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.133S | Subluxation of proximal interphalangeal joint of unspecified thumb, sequela              | Diagnosis     | ICD-10-CM |
| S63.134  | Dislocation of proximal interphalangeal joint of right thumb                             | Diagnosis     | ICD-10-CM |
| S63.134A | Dislocation of proximal interphalangeal joint of right thumb, initial encounter          | Diagnosis     | ICD-10-CM |
| S63.134D | Dislocation of proximal interphalangeal joint of right thumb, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S63.134S | Dislocation of proximal interphalangeal joint of right thumb, sequela                    | Diagnosis     | ICD-10-CM |
| S63.135  | Dislocation of proximal interphalangeal joint of left thumb                              | Diagnosis     | ICD-10-CM |
| S63.135A | Dislocation of proximal interphalangeal joint of left thumb, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.135D | Dislocation of proximal interphalangeal joint of left thumb, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.135S | Dislocation of proximal interphalangeal joint of left thumb, sequela                     | Diagnosis     | ICD-10-CM |
| S63.136  | Dislocation of proximal interphalangeal joint of unspecified thumb                       | Diagnosis     | ICD-10-CM |
| S63.136A | Dislocation of proximal interphalangeal joint of unspecified thumb, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.136D | Dislocation of proximal interphalangeal joint of unspecified thumb, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.136S | Dislocation of proximal interphalangeal joint of unspecified thumb, sequela              | Diagnosis     | ICD-10-CM |
| S63.14   | Subluxation and dislocation of distal interphalangeal joint of thumb                     | Diagnosis     | ICD-10-CM |
| S63.141  | Subluxation of distal interphalangeal joint of right thumb                               | Diagnosis     | ICD-10-CM |
| S63.141A | Subluxation of distal interphalangeal joint of right thumb, initial encounter            | Diagnosis     | ICD-10-CM |
| S63.141D | Subluxation of distal interphalangeal joint of right thumb, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S63.141S | Subluxation of distal interphalangeal joint of right thumb, sequela                      | Diagnosis     | ICD-10-CM |
| S63.142  | Subluxation of distal interphalangeal joint of left thumb                                | Diagnosis     | ICD-10-CM |
| S63.142A | Subluxation of distal interphalangeal joint of left thumb, initial encounter             | Diagnosis     | ICD-10-CM |
| S63.142D | Subluxation of distal interphalangeal joint of left thumb, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S63.142S | Subluxation of distal interphalangeal joint of left thumb, sequela                       | Diagnosis     | ICD-10-CM |
| S63.143  | Subluxation of distal interphalangeal joint of unspecified thumb                         | Diagnosis     | ICD-10-CM |
| S63.143A | Subluxation of distal interphalangeal joint of unspecified thumb, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.143D | Subluxation of distal interphalangeal joint of unspecified thumb, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.143S | Subluxation of distal interphalangeal joint of unspecified thumb, sequela                | Diagnosis     | ICD-10-CM |
| S63.144  | Dislocation of distal interphalangeal joint of right thumb                               | Diagnosis     | ICD-10-CM |
| S63.144A | Dislocation of distal interphalangeal joint of right thumb, initial encounter            | Diagnosis     | ICD-10-CM |
| S63.144D | Dislocation of distal interphalangeal joint of right thumb, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S63.144S | Dislocation of distal interphalangeal joint of right thumb, sequela                      | Diagnosis     | ICD-10-CM |
| S63.145  | Dislocation of distal interphalangeal joint of left thumb                                | Diagnosis     | ICD-10-CM |
| S63.145A | Dislocation of distal interphalangeal joint of left thumb, initial encounter             | Diagnosis     | ICD-10-CM |
| S63.145D | Dislocation of distal interphalangeal joint of left thumb, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S63.145S | Dislocation of distal interphalangeal joint of left thumb, sequela                       | Diagnosis     | ICD-10-CM |
| S63.146  | Dislocation of distal interphalangeal joint of unspecified thumb                         | Diagnosis     | ICD-10-CM |
| S63.146A | Dislocation of distal interphalangeal joint of unspecified thumb, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.146D | Dislocation of distal interphalangeal joint of unspecified thumb, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.146S | Dislocation of distal interphalangeal joint of unspecified thumb, sequela                | Diagnosis     | ICD-10-CM |
| S63.2    | Subluxation and dislocation of other finger(s)   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S63.20   | Unspecified subluxation of other finger  | Diagnosis     | ICD-10-CM |
| S63.200  | Unspecified subluxation of right index finger  | Diagnosis     | ICD-10-CM |
| S63.200A | Unspecified subluxation of right index finger, initial encounter                     | Diagnosis     | ICD-10-CM |
| S63.200D | Unspecified subluxation of right index finger, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S63.200S | Unspecified subluxation of right index finger, sequela                               | Diagnosis     | ICD-10-CM |
| S63.201  | Unspecified subluxation of left index finger   | Diagnosis     | ICD-10-CM |
| S63.201A | Unspecified subluxation of left index finger, initial encounter                      | Diagnosis     | ICD-10-CM |
| S63.201D | Unspecified subluxation of left index finger, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S63.201S | Unspecified subluxation of left index finger, sequela                                | Diagnosis     | ICD-10-CM |
| S63.202  | Unspecified subluxation of right middle finger                                       | Diagnosis     | ICD-10-CM |
| S63.202A | Unspecified subluxation of right middle finger, initial encounter                    | Diagnosis     | ICD-10-CM |
| S63.202D | Unspecified subluxation of right middle finger, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S63.202S | Unspecified subluxation of right middle finger, sequela                              | Diagnosis     | ICD-10-CM |
| S63.203  | Unspecified subluxation of left middle finger  | Diagnosis     | ICD-10-CM |
| S63.203A | Unspecified subluxation of left middle finger, initial encounter                     | Diagnosis     | ICD-10-CM |
| S63.203D | Unspecified subluxation of left middle finger, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S63.203S | Unspecified subluxation of left middle finger, sequela                               | Diagnosis     | ICD-10-CM |
| S63.204  | Unspecified subluxation of right ring finger   | Diagnosis     | ICD-10-CM |
| S63.204A | Unspecified subluxation of right ring finger, initial encounter                      | Diagnosis     | ICD-10-CM |
| S63.204D | Unspecified subluxation of right ring finger, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S63.204S | Unspecified subluxation of right ring finger, sequela                                | Diagnosis     | ICD-10-CM |
| S63.205  | Unspecified subluxation of left ring finger  | Diagnosis     | ICD-10-CM |
| S63.205A | Unspecified subluxation of left ring finger, initial encounter                       | Diagnosis     | ICD-10-CM |
| S63.205D | Unspecified subluxation of left ring finger, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S63.205S | Unspecified subluxation of left ring finger, sequela                                 | Diagnosis     | ICD-10-CM |
| S63.206  | Unspecified subluxation of right little finger                                       | Diagnosis     | ICD-10-CM |
| S63.206A | Unspecified subluxation of right little finger, initial encounter                    | Diagnosis     | ICD-10-CM |
| S63.206D | Unspecified subluxation of right little finger, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S63.206S | Unspecified subluxation of right little finger, sequela                              | Diagnosis     | ICD-10-CM |
| S63.207  | Unspecified subluxation of left little finger  | Diagnosis     | ICD-10-CM |
| S63.207A | Unspecified subluxation of left little finger, initial encounter                     | Diagnosis     | ICD-10-CM |
| S63.207D | Unspecified subluxation of left little finger, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S63.207S | Unspecified subluxation of left little finger, sequela                               | Diagnosis     | ICD-10-CM |
| S63.208  | Unspecified subluxation of other finger  | Diagnosis     | ICD-10-CM |
| S63.208A | Unspecified subluxation of other finger, initial encounter                           | Diagnosis     | ICD-10-CM |
| S63.208D | Unspecified subluxation of other finger, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S63.208S | Unspecified subluxation of other finger, sequela                                     | Diagnosis     | ICD-10-CM |
| S63.209  | Unspecified subluxation of unspecified finger  | Diagnosis     | ICD-10-CM |
| S63.209A | Unspecified subluxation of unspecified finger, initial encounter                     | Diagnosis     | ICD-10-CM |
| S63.209D | Unspecified subluxation of unspecified finger, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S63.209S | Unspecified subluxation of unspecified finger, sequela                               | Diagnosis     | ICD-10-CM |
| S63.21   | Subluxation of metacarpophalangeal joint of finger                                   | Diagnosis     | ICD-10-CM |
| S63.210  | Subluxation of metacarpophalangeal joint of right index finger                       | Diagnosis     | ICD-10-CM |
| S63.210A | Subluxation of metacarpophalangeal joint of right index finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.210D | Subluxation of metacarpophalangeal joint of right index finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.210S | Subluxation of metacarpophalangeal joint of right index finger, sequela              | Diagnosis     | ICD-10-CM |
| S63.211  | Subluxation of metacarpophalangeal joint of left index finger                        | Diagnosis     | ICD-10-CM |
| S63.211A | Subluxation of metacarpophalangeal joint of left index finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.211D | Subluxation of metacarpophalangeal joint of left index finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.211S | Subluxation of metacarpophalangeal joint of left index finger, sequela               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S63.212  | Subluxation of metacarpophalangeal joint of right middle finger                               | Diagnosis     | ICD-10-CM |
| S63.212A | Subluxation of metacarpophalangeal joint of right middle finger, initial encounter            | Diagnosis     | ICD-10-CM |
| S63.212D | Subluxation of metacarpophalangeal joint of right middle finger, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S63.212S | Subluxation of metacarpophalangeal joint of right middle finger, sequela                      | Diagnosis     | ICD-10-CM |
| S63.213  | Subluxation of metacarpophalangeal joint of left middle finger                                | Diagnosis     | ICD-10-CM |
| S63.213A | Subluxation of metacarpophalangeal joint of left middle finger, initial encounter             | Diagnosis     | ICD-10-CM |
| S63.213D | Subluxation of metacarpophalangeal joint of left middle finger, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S63.213S | Subluxation of metacarpophalangeal joint of left middle finger, sequela                       | Diagnosis     | ICD-10-CM |
| S63.214  | Subluxation of metacarpophalangeal joint of right ring finger                                 | Diagnosis     | ICD-10-CM |
| S63.214A | Subluxation of metacarpophalangeal joint of right ring finger, initial encounter              | Diagnosis     | ICD-10-CM |
| S63.214D | Subluxation of metacarpophalangeal joint of right ring finger, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S63.214S | Subluxation of metacarpophalangeal joint of right ring finger, sequela                        | Diagnosis     | ICD-10-CM |
| S63.215  | Subluxation of metacarpophalangeal joint of left ring finger                                  | Diagnosis     | ICD-10-CM |
| S63.215A | Subluxation of metacarpophalangeal joint of left ring finger, initial encounter               | Diagnosis     | ICD-10-CM |
| S63.215D | Subluxation of metacarpophalangeal joint of left ring finger, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S63.215S | Subluxation of metacarpophalangeal joint of left ring finger, sequela                         | Diagnosis     | ICD-10-CM |
| S63.216  | Subluxation of metacarpophalangeal joint of right little finger                               | Diagnosis     | ICD-10-CM |
| S63.216A | Subluxation of metacarpophalangeal joint of right little finger, initial encounter            | Diagnosis     | ICD-10-CM |
| S63.216D | Subluxation of metacarpophalangeal joint of right little finger, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S63.216S | Subluxation of metacarpophalangeal joint of right little finger, sequela                      | Diagnosis     | ICD-10-CM |
| S63.217  | Subluxation of metacarpophalangeal joint of left little finger                                | Diagnosis     | ICD-10-CM |
| S63.217A | Subluxation of metacarpophalangeal joint of left little finger, initial encounter             | Diagnosis     | ICD-10-CM |
| S63.217D | Subluxation of metacarpophalangeal joint of left little finger, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S63.217S | Subluxation of metacarpophalangeal joint of left little finger, sequela                       | Diagnosis     | ICD-10-CM |
| S63.218  | Subluxation of metacarpophalangeal joint of other finger                                      | Diagnosis     | ICD-10-CM |
| S63.218A | Subluxation of metacarpophalangeal joint of other finger, initial encounter                   | Diagnosis     | ICD-10-CM |
| S63.218D | Subluxation of metacarpophalangeal joint of other finger, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S63.218S | Subluxation of metacarpophalangeal joint of other finger, sequela                             | Diagnosis     | ICD-10-CM |
| S63.219  | Subluxation of metacarpophalangeal joint of unspecified finger                                | Diagnosis     | ICD-10-CM |
| S63.219A | Subluxation of metacarpophalangeal joint of unspecified finger, initial encounter             | Diagnosis     | ICD-10-CM |
| S63.219D | Subluxation of metacarpophalangeal joint of unspecified finger, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S63.219S | Subluxation of metacarpophalangeal joint of unspecified finger, sequela                       | Diagnosis     | ICD-10-CM |
| S63.22   | Subluxation of unspecified interphalangeal joint of finger                                    | Diagnosis     | ICD-10-CM |
| S63.220  | Subluxation of unspecified interphalangeal joint of right index finger                        | Diagnosis     | ICD-10-CM |
| S63.220A | Subluxation of unspecified interphalangeal joint of right index finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.220D | Subluxation of unspecified interphalangeal joint of right index finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.220S | Subluxation of unspecified interphalangeal joint of right index finger, sequela               | Diagnosis     | ICD-10-CM |
| S63.221  | Subluxation of unspecified interphalangeal joint of left index finger                         | Diagnosis     | ICD-10-CM |
| S63.221A | Subluxation of unspecified interphalangeal joint of left index finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.221D | Subluxation of unspecified interphalangeal joint of left index finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.221S | Subluxation of unspecified interphalangeal joint of left index finger, sequela                | Diagnosis     | ICD-10-CM |
| S63.222  | Subluxation of unspecified interphalangeal joint of right middle finger                       | Diagnosis     | ICD-10-CM |
| S63.222A | Subluxation of unspecified interphalangeal joint of right middle finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.222D | Subluxation of unspecified interphalangeal joint of right middle finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.222S | Subluxation of unspecified interphalangeal joint of right middle finger, sequela              | Diagnosis     | ICD-10-CM |
| S63.223  | Subluxation of unspecified interphalangeal joint of left middle finger                        | Diagnosis     | ICD-10-CM |
| S63.223A | Subluxation of unspecified interphalangeal joint of left middle finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.223D | Subluxation of unspecified interphalangeal joint of left middle finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.223S | Subluxation of unspecified interphalangeal joint of left middle finger, sequela               | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S63.224  | Subluxation of unspecified interphalangeal joint of right ring finger                         | Diagnosis     | ICD-10-CM |
| S63.224A | Subluxation of unspecified interphalangeal joint of right ring finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.224D | Subluxation of unspecified interphalangeal joint of right ring finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.224S | Subluxation of unspecified interphalangeal joint of right ring finger, sequela                | Diagnosis     | ICD-10-CM |
| S63.225  | Subluxation of unspecified interphalangeal joint of left ring finger                          | Diagnosis     | ICD-10-CM |
| S63.225A | Subluxation of unspecified interphalangeal joint of left ring finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S63.225D | Subluxation of unspecified interphalangeal joint of left ring finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S63.225S | Subluxation of unspecified interphalangeal joint of left ring finger, sequela                 | Diagnosis     | ICD-10-CM |
| S63.226  | Subluxation of unspecified interphalangeal joint of right little finger                       | Diagnosis     | ICD-10-CM |
| S63.226A | Subluxation of unspecified interphalangeal joint of right little finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.226D | Subluxation of unspecified interphalangeal joint of right little finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.226S | Subluxation of unspecified interphalangeal joint of right little finger, sequela              | Diagnosis     | ICD-10-CM |
| S63.227  | Subluxation of unspecified interphalangeal joint of left little finger                        | Diagnosis     | ICD-10-CM |
| S63.227A | Subluxation of unspecified interphalangeal joint of left little finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.227D | Subluxation of unspecified interphalangeal joint of left little finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.227S | Subluxation of unspecified interphalangeal joint of left little finger, sequela               | Diagnosis     | ICD-10-CM |
| S63.228  | Subluxation of unspecified interphalangeal joint of other finger                              | Diagnosis     | ICD-10-CM |
| S63.228A | Subluxation of unspecified interphalangeal joint of other finger, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.228D | Subluxation of unspecified interphalangeal joint of other finger, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.228S | Subluxation of unspecified interphalangeal joint of other finger, sequela                     | Diagnosis     | ICD-10-CM |
| S63.229  | Subluxation of unspecified interphalangeal joint of unspecified finger                        | Diagnosis     | ICD-10-CM |
| S63.229A | Subluxation of unspecified interphalangeal joint of unspecified finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.229D | Subluxation of unspecified interphalangeal joint of unspecified finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.229S | Subluxation of unspecified interphalangeal joint of unspecified finger, sequela               | Diagnosis     | ICD-10-CM |
| S63.23   | Subluxation of proximal interphalangeal joint of finger                                       | Diagnosis     | ICD-10-CM |
| S63.230  | Subluxation of proximal interphalangeal joint of right index finger                           | Diagnosis     | ICD-10-CM |
| S63.230A | Subluxation of proximal interphalangeal joint of right index finger, initial encounter        | Diagnosis     | ICD-10-CM |
| S63.230D | Subluxation of proximal interphalangeal joint of right index finger, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S63.230S | Subluxation of proximal interphalangeal joint of right index finger, sequela                  | Diagnosis     | ICD-10-CM |
| S63.231  | Subluxation of proximal interphalangeal joint of left index finger                            | Diagnosis     | ICD-10-CM |
| S63.231A | Subluxation of proximal interphalangeal joint of left index finger, initial encounter         | Diagnosis     | ICD-10-CM |
| S63.231D | Subluxation of proximal interphalangeal joint of left index finger, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S63.231S | Subluxation of proximal interphalangeal joint of left index finger, sequela                   | Diagnosis     | ICD-10-CM |
| S63.232  | Subluxation of proximal interphalangeal joint of right middle finger                          | Diagnosis     | ICD-10-CM |
| S63.232A | Subluxation of proximal interphalangeal joint of right middle finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S63.232D | Subluxation of proximal interphalangeal joint of right middle finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S63.232S | Subluxation of proximal interphalangeal joint of right middle finger, sequela                 | Diagnosis     | ICD-10-CM |
| S63.233  | Subluxation of proximal interphalangeal joint of left middle finger                           | Diagnosis     | ICD-10-CM |
| S63.233A | Subluxation of proximal interphalangeal joint of left middle finger, initial encounter        | Diagnosis     | ICD-10-CM |
| S63.233D | Subluxation of proximal interphalangeal joint of left middle finger, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S63.233S | Subluxation of proximal interphalangeal joint of left middle finger, sequela                  | Diagnosis     | ICD-10-CM |
| S63.234  | Subluxation of proximal interphalangeal joint of right ring finger                            | Diagnosis     | ICD-10-CM |
| S63.234A | Subluxation of proximal interphalangeal joint of right ring finger, initial encounter         | Diagnosis     | ICD-10-CM |
| S63.234D | Subluxation of proximal interphalangeal joint of right ring finger, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S63.234S | Subluxation of proximal interphalangeal joint of right ring finger, sequela                   | Diagnosis     | ICD-10-CM |
| S63.235  | Subluxation of proximal interphalangeal joint of left ring finger                             | Diagnosis     | ICD-10-CM |
| S63.235A | Subluxation of proximal interphalangeal joint of left ring finger, initial encounter          | Diagnosis     | ICD-10-CM |
| S63.235D | Subluxation of proximal interphalangeal joint of left ring finger, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S63.235S | Subluxation of proximal interphalangeal joint of left ring finger, sequela                    | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S63.236  | Subluxation of proximal interphalangeal joint of right little finger                       | Diagnosis     | ICD-10-CM |
| S63.236A | Subluxation of proximal interphalangeal joint of right little finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.236D | Subluxation of proximal interphalangeal joint of right little finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.236S | Subluxation of proximal interphalangeal joint of right little finger, sequela              | Diagnosis     | ICD-10-CM |
| S63.237  | Subluxation of proximal interphalangeal joint of left little finger                        | Diagnosis     | ICD-10-CM |
| S63.237A | Subluxation of proximal interphalangeal joint of left little finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.237D | Subluxation of proximal interphalangeal joint of left little finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.237S | Subluxation of proximal interphalangeal joint of left little finger, sequela               | Diagnosis     | ICD-10-CM |
| S63.238  | Subluxation of proximal interphalangeal joint of other finger                              | Diagnosis     | ICD-10-CM |
| S63.238A | Subluxation of proximal interphalangeal joint of other finger, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.238D | Subluxation of proximal interphalangeal joint of other finger, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.238S | Subluxation of proximal interphalangeal joint of other finger, sequela                     | Diagnosis     | ICD-10-CM |
| S63.239  | Subluxation of proximal interphalangeal joint of unspecified finger                        | Diagnosis     | ICD-10-CM |
| S63.239A | Subluxation of proximal interphalangeal joint of unspecified finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.239D | Subluxation of proximal interphalangeal joint of unspecified finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.239S | Subluxation of proximal interphalangeal joint of unspecified finger, sequela               | Diagnosis     | ICD-10-CM |
| S63.24   | Subluxation of distal interphalangeal joint of finger                                      | Diagnosis     | ICD-10-CM |
| S63.240  | Subluxation of distal interphalangeal joint of right index finger                          | Diagnosis     | ICD-10-CM |
| S63.240A | Subluxation of distal interphalangeal joint of right index finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S63.240D | Subluxation of distal interphalangeal joint of right index finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S63.240S | Subluxation of distal interphalangeal joint of right index finger, sequela                 | Diagnosis     | ICD-10-CM |
| S63.241  | Subluxation of distal interphalangeal joint of left index finger                           | Diagnosis     | ICD-10-CM |
| S63.241A | Subluxation of distal interphalangeal joint of left index finger, initial encounter        | Diagnosis     | ICD-10-CM |
| S63.241D | Subluxation of distal interphalangeal joint of left index finger, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S63.241S | Subluxation of distal interphalangeal joint of left index finger, sequela                  | Diagnosis     | ICD-10-CM |
| S63.242  | Subluxation of distal interphalangeal joint of right middle finger                         | Diagnosis     | ICD-10-CM |
| S63.242A | Subluxation of distal interphalangeal joint of right middle finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.242D | Subluxation of distal interphalangeal joint of right middle finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.242S | Subluxation of distal interphalangeal joint of right middle finger, sequela                | Diagnosis     | ICD-10-CM |
| S63.243  | Subluxation of distal interphalangeal joint of left middle finger                          | Diagnosis     | ICD-10-CM |
| S63.243A | Subluxation of distal interphalangeal joint of left middle finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S63.243D | Subluxation of distal interphalangeal joint of left middle finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S63.243S | Subluxation of distal interphalangeal joint of left middle finger, sequela                 | Diagnosis     | ICD-10-CM |
| S63.244  | Subluxation of distal interphalangeal joint of right ring finger                           | Diagnosis     | ICD-10-CM |
| S63.244A | Subluxation of distal interphalangeal joint of right ring finger, initial encounter        | Diagnosis     | ICD-10-CM |
| S63.244D | Subluxation of distal interphalangeal joint of right ring finger, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S63.244S | Subluxation of distal interphalangeal joint of right ring finger, sequela                  | Diagnosis     | ICD-10-CM |
| S63.245  | Subluxation of distal interphalangeal joint of left ring finger                            | Diagnosis     | ICD-10-CM |
| S63.245A | Subluxation of distal interphalangeal joint of left ring finger, initial encounter         | Diagnosis     | ICD-10-CM |
| S63.245D | Subluxation of distal interphalangeal joint of left ring finger, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S63.245S | Subluxation of distal interphalangeal joint of left ring finger, sequela                   | Diagnosis     | ICD-10-CM |
| S63.246  | Subluxation of distal interphalangeal joint of right little finger                         | Diagnosis     | ICD-10-CM |
| S63.246A | Subluxation of distal interphalangeal joint of right little finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.246D | Subluxation of distal interphalangeal joint of right little finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.246S | Subluxation of distal interphalangeal joint of right little finger, sequela                | Diagnosis     | ICD-10-CM |
| S63.247  | Subluxation of distal interphalangeal joint of left little finger                          | Diagnosis     | ICD-10-CM |
| S63.247A | Subluxation of distal interphalangeal joint of left little finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S63.247D | Subluxation of distal interphalangeal joint of left little finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S63.247S | Subluxation of distal interphalangeal joint of left little finger, sequela                 | Diagnosis     | ICD-10-CM |
| S63.248  | Subluxation of distal interphalangeal joint of other finger                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S63.248A | Subluxation of distal interphalangeal joint of other finger, initial encounter          | Diagnosis     | ICD-10-CM |
| S63.248D | Subluxation of distal interphalangeal joint of other finger, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S63.248S | Subluxation of distal interphalangeal joint of other finger, sequela                    | Diagnosis     | ICD-10-CM |
| S63.249  | Subluxation of distal interphalangeal joint of unspecified finger                       | Diagnosis     | ICD-10-CM |
| S63.249A | Subluxation of distal interphalangeal joint of unspecified finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.249D | Subluxation of distal interphalangeal joint of unspecified finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.249S | Subluxation of distal interphalangeal joint of unspecified finger, sequela              | Diagnosis     | ICD-10-CM |
| S63.25   | Unspecified dislocation of other finger   | Diagnosis     | ICD-10-CM |
| S63.250  | Unspecified dislocation of right index finger   | Diagnosis     | ICD-10-CM |
| S63.250A | Unspecified dislocation of right index finger, initial encounter                        | Diagnosis     | ICD-10-CM |
| S63.250D | Unspecified dislocation of right index finger, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S63.250S | Unspecified dislocation of right index finger, sequela                                  | Diagnosis     | ICD-10-CM |
| S63.251  | Unspecified dislocation of left index finger  | Diagnosis     | ICD-10-CM |
| S63.251A | Unspecified dislocation of left index finger, initial encounter                         | Diagnosis     | ICD-10-CM |
| S63.251D | Unspecified dislocation of left index finger, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S63.251S | Unspecified dislocation of left index finger, sequela                                   | Diagnosis     | ICD-10-CM |
| S63.252  | Unspecified dislocation of right middle finger  | Diagnosis     | ICD-10-CM |
| S63.252A | Unspecified dislocation of right middle finger, initial encounter                       | Diagnosis     | ICD-10-CM |
| S63.252D | Unspecified dislocation of right middle finger, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S63.252S | Unspecified dislocation of right middle finger, sequela                                 | Diagnosis     | ICD-10-CM |
| S63.253  | Unspecified dislocation of left middle finger   | Diagnosis     | ICD-10-CM |
| S63.253A | Unspecified dislocation of left middle finger, initial encounter                        | Diagnosis     | ICD-10-CM |
| S63.253D | Unspecified dislocation of left middle finger, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S63.253S | Unspecified dislocation of left middle finger, sequela                                  | Diagnosis     | ICD-10-CM |
| S63.254  | Unspecified dislocation of right ring finger  | Diagnosis     | ICD-10-CM |
| S63.254A | Unspecified dislocation of right ring finger, initial encounter                         | Diagnosis     | ICD-10-CM |
| S63.254D | Unspecified dislocation of right ring finger, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S63.254S | Unspecified dislocation of right ring finger, sequela                                   | Diagnosis     | ICD-10-CM |
| S63.255  | Unspecified dislocation of left ring finger   | Diagnosis     | ICD-10-CM |
| S63.255A | Unspecified dislocation of left ring finger, initial encounter                          | Diagnosis     | ICD-10-CM |
| S63.255D | Unspecified dislocation of left ring finger, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S63.255S | Unspecified dislocation of left ring finger, sequela                                    | Diagnosis     | ICD-10-CM |
| S63.256  | Unspecified dislocation of right little finger  | Diagnosis     | ICD-10-CM |
| S63.256A | Unspecified dislocation of right little finger, initial encounter                       | Diagnosis     | ICD-10-CM |
| S63.256D | Unspecified dislocation of right little finger, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S63.256S | Unspecified dislocation of right little finger, sequela                                 | Diagnosis     | ICD-10-CM |
| S63.257  | Unspecified dislocation of left little finger   | Diagnosis     | ICD-10-CM |
| S63.257A | Unspecified dislocation of left little finger, initial encounter                        | Diagnosis     | ICD-10-CM |
| S63.257D | Unspecified dislocation of left little finger, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S63.257S | Unspecified dislocation of left little finger, sequela                                  | Diagnosis     | ICD-10-CM |
| S63.258  | Unspecified dislocation of other finger   | Diagnosis     | ICD-10-CM |
| S63.258A | Unspecified dislocation of other finger, initial encounter                              | Diagnosis     | ICD-10-CM |
| S63.258D | Unspecified dislocation of other finger, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S63.258S | Unspecified dislocation of other finger, sequela  | Diagnosis     | ICD-10-CM |
| S63.259  | Unspecified dislocation of unspecified finger   | Diagnosis     | ICD-10-CM |
| S63.259A | Unspecified dislocation of unspecified finger, initial encounter                        | Diagnosis     | ICD-10-CM |
| S63.259D | Unspecified dislocation of unspecified finger, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S63.259S | Unspecified dislocation of unspecified finger, sequela                                  | Diagnosis     | ICD-10-CM |
| S63.26   | Dislocation of metacarpophalangeal joint of finger                                      | Diagnosis     | ICD-10-CM |
| S63.260  | Dislocation of metacarpophalangeal joint of right index finger                          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S63.260A | Dislocation of metacarpophalangeal joint of right index finger, initial encounter            | Diagnosis     | ICD-10-CM |
| S63.260D | Dislocation of metacarpophalangeal joint of right index finger, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S63.260S | Dislocation of metacarpophalangeal joint of right index finger, sequela                      | Diagnosis     | ICD-10-CM |
| S63.261  | Dislocation of metacarpophalangeal joint of left index finger                                | Diagnosis     | ICD-10-CM |
| S63.261A | Dislocation of metacarpophalangeal joint of left index finger, initial encounter             | Diagnosis     | ICD-10-CM |
| S63.261D | Dislocation of metacarpophalangeal joint of left index finger, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S63.261S | Dislocation of metacarpophalangeal joint of left index finger, sequela                       | Diagnosis     | ICD-10-CM |
| S63.262  | Dislocation of metacarpophalangeal joint of right middle finger                              | Diagnosis     | ICD-10-CM |
| S63.262A | Dislocation of metacarpophalangeal joint of right middle finger, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.262D | Dislocation of metacarpophalangeal joint of right middle finger, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.262S | Dislocation of metacarpophalangeal joint of right middle finger, sequela                     | Diagnosis     | ICD-10-CM |
| S63.263  | Dislocation of metacarpophalangeal joint of left middle finger                               | Diagnosis     | ICD-10-CM |
| S63.263A | Dislocation of metacarpophalangeal joint of left middle finger, initial encounter            | Diagnosis     | ICD-10-CM |
| S63.263D | Dislocation of metacarpophalangeal joint of left middle finger, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S63.263S | Dislocation of metacarpophalangeal joint of left middle finger, sequela                      | Diagnosis     | ICD-10-CM |
| S63.264  | Dislocation of metacarpophalangeal joint of right ring finger                                | Diagnosis     | ICD-10-CM |
| S63.264A | Dislocation of metacarpophalangeal joint of right ring finger, initial encounter             | Diagnosis     | ICD-10-CM |
| S63.264D | Dislocation of metacarpophalangeal joint of right ring finger, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S63.264S | Dislocation of metacarpophalangeal joint of right ring finger, sequela                       | Diagnosis     | ICD-10-CM |
| S63.265  | Dislocation of metacarpophalangeal joint of left ring finger                                 | Diagnosis     | ICD-10-CM |
| S63.265A | Dislocation of metacarpophalangeal joint of left ring finger, initial encounter              | Diagnosis     | ICD-10-CM |
| S63.265D | Dislocation of metacarpophalangeal joint of left ring finger, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S63.265S | Dislocation of metacarpophalangeal joint of left ring finger, sequela                        | Diagnosis     | ICD-10-CM |
| S63.266  | Dislocation of metacarpophalangeal joint of right little finger                              | Diagnosis     | ICD-10-CM |
| S63.266A | Dislocation of metacarpophalangeal joint of right little finger, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.266D | Dislocation of metacarpophalangeal joint of right little finger, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.266S | Dislocation of metacarpophalangeal joint of right little finger, sequela                     | Diagnosis     | ICD-10-CM |
| S63.267  | Dislocation of metacarpophalangeal joint of left little finger                               | Diagnosis     | ICD-10-CM |
| S63.267A | Dislocation of metacarpophalangeal joint of left little finger, initial encounter            | Diagnosis     | ICD-10-CM |
| S63.267D | Dislocation of metacarpophalangeal joint of left little finger, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S63.267S | Dislocation of metacarpophalangeal joint of left little finger, sequela                      | Diagnosis     | ICD-10-CM |
| S63.268  | Dislocation of metacarpophalangeal joint of other finger                                     | Diagnosis     | ICD-10-CM |
| S63.268A | Dislocation of metacarpophalangeal joint of other finger, initial encounter                  | Diagnosis     | ICD-10-CM |
| S63.268D | Dislocation of metacarpophalangeal joint of other finger, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S63.268S | Dislocation of metacarpophalangeal joint of other finger, sequela                            | Diagnosis     | ICD-10-CM |
| S63.269  | Dislocation of metacarpophalangeal joint of unspecified finger                               | Diagnosis     | ICD-10-CM |
| S63.269A | Dislocation of metacarpophalangeal joint of unspecified finger, initial encounter            | Diagnosis     | ICD-10-CM |
| S63.269D | Dislocation of metacarpophalangeal joint of unspecified finger, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S63.269S | Dislocation of metacarpophalangeal joint of unspecified finger, sequela                      | Diagnosis     | ICD-10-CM |
| S63.27   | Dislocation of unspecified interphalangeal joint of finger                                   | Diagnosis     | ICD-10-CM |
| S63.270  | Dislocation of unspecified interphalangeal joint of right index finger                       | Diagnosis     | ICD-10-CM |
| S63.270A | Dislocation of unspecified interphalangeal joint of right index finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.270D | Dislocation of unspecified interphalangeal joint of right index finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.270S | Dislocation of unspecified interphalangeal joint of right index finger, sequela              | Diagnosis     | ICD-10-CM |
| S63.271  | Dislocation of unspecified interphalangeal joint of left index finger                        | Diagnosis     | ICD-10-CM |
| S63.271A | Dislocation of unspecified interphalangeal joint of left index finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.271D | Dislocation of unspecified interphalangeal joint of left index finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.271S | Dislocation of unspecified interphalangeal joint of left index finger, sequela               | Diagnosis     | ICD-10-CM |
| S63.272  | Dislocation of unspecified interphalangeal joint of right middle finger                      | Diagnosis     | ICD-10-CM |
| S63.272A | Dislocation of unspecified interphalangeal joint of right middle finger, initial encounter   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S63.272D | Dislocation of unspecified interphalangeal joint of right middle finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.272S | Dislocation of unspecified interphalangeal joint of right middle finger, sequela              | Diagnosis     | ICD-10-CM |
| S63.273  | Dislocation of unspecified interphalangeal joint of left middle finger                        | Diagnosis     | ICD-10-CM |
| S63.273A | Dislocation of unspecified interphalangeal joint of left middle finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.273D | Dislocation of unspecified interphalangeal joint of left middle finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.273S | Dislocation of unspecified interphalangeal joint of left middle finger, sequela               | Diagnosis     | ICD-10-CM |
| S63.274  | Dislocation of unspecified interphalangeal joint of right ring finger                         | Diagnosis     | ICD-10-CM |
| S63.274A | Dislocation of unspecified interphalangeal joint of right ring finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.274D | Dislocation of unspecified interphalangeal joint of right ring finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.274S | Dislocation of unspecified interphalangeal joint of right ring finger, sequela                | Diagnosis     | ICD-10-CM |
| S63.275  | Dislocation of unspecified interphalangeal joint of left ring finger                          | Diagnosis     | ICD-10-CM |
| S63.275A | Dislocation of unspecified interphalangeal joint of left ring finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S63.275D | Dislocation of unspecified interphalangeal joint of left ring finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S63.275S | Dislocation of unspecified interphalangeal joint of left ring finger, sequela                 | Diagnosis     | ICD-10-CM |
| S63.276  | Dislocation of unspecified interphalangeal joint of right little finger                       | Diagnosis     | ICD-10-CM |
| S63.276A | Dislocation of unspecified interphalangeal joint of right little finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.276D | Dislocation of unspecified interphalangeal joint of right little finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.276S | Dislocation of unspecified interphalangeal joint of right little finger, sequela              | Diagnosis     | ICD-10-CM |
| S63.277  | Dislocation of unspecified interphalangeal joint of left little finger                        | Diagnosis     | ICD-10-CM |
| S63.277A | Dislocation of unspecified interphalangeal joint of left little finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.277D | Dislocation of unspecified interphalangeal joint of left little finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.277S | Dislocation of unspecified interphalangeal joint of left little finger, sequela               | Diagnosis     | ICD-10-CM |
| S63.278  | Dislocation of unspecified interphalangeal joint of other finger                              | Diagnosis     | ICD-10-CM |
| S63.278A | Dislocation of unspecified interphalangeal joint of other finger, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.278D | Dislocation of unspecified interphalangeal joint of other finger, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.278S | Dislocation of unspecified interphalangeal joint of other finger, sequela                     | Diagnosis     | ICD-10-CM |
| S63.279  | Dislocation of unspecified interphalangeal joint of unspecified finger                        | Diagnosis     | ICD-10-CM |
| S63.279A | Dislocation of unspecified interphalangeal joint of unspecified finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.279D | Dislocation of unspecified interphalangeal joint of unspecified finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.279S | Dislocation of unspecified interphalangeal joint of unspecified finger, sequela               | Diagnosis     | ICD-10-CM |
| S63.28   | Dislocation of proximal interphalangeal joint of finger                                       | Diagnosis     | ICD-10-CM |
| S63.280  | Dislocation of proximal interphalangeal joint of right index finger                           | Diagnosis     | ICD-10-CM |
| S63.280A | Dislocation of proximal interphalangeal joint of right index finger, initial encounter        | Diagnosis     | ICD-10-CM |
| S63.280D | Dislocation of proximal interphalangeal joint of right index finger, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S63.280S | Dislocation of proximal interphalangeal joint of right index finger, sequela                  | Diagnosis     | ICD-10-CM |
| S63.281  | Dislocation of proximal interphalangeal joint of left index finger                            | Diagnosis     | ICD-10-CM |
| S63.281A | Dislocation of proximal interphalangeal joint of left index finger, initial encounter         | Diagnosis     | ICD-10-CM |
| S63.281D | Dislocation of proximal interphalangeal joint of left index finger, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S63.281S | Dislocation of proximal interphalangeal joint of left index finger, sequela                   | Diagnosis     | ICD-10-CM |
| S63.282  | Dislocation of proximal interphalangeal joint of right middle finger                          | Diagnosis     | ICD-10-CM |
| S63.282A | Dislocation of proximal interphalangeal joint of right middle finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S63.282D | Dislocation of proximal interphalangeal joint of right middle finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S63.282S | Dislocation of proximal interphalangeal joint of right middle finger, sequela                 | Diagnosis     | ICD-10-CM |
| S63.283  | Dislocation of proximal interphalangeal joint of left middle finger                           | Diagnosis     | ICD-10-CM |
| S63.283A | Dislocation of proximal interphalangeal joint of left middle finger, initial encounter        | Diagnosis     | ICD-10-CM |
| S63.283D | Dislocation of proximal interphalangeal joint of left middle finger, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S63.283S | Dislocation of proximal interphalangeal joint of left middle finger, sequela                  | Diagnosis     | ICD-10-CM |
| S63.284  | Dislocation of proximal interphalangeal joint of right ring finger                            | Diagnosis     | ICD-10-CM |
| S63.284A | Dislocation of proximal interphalangeal joint of right ring finger, initial encounter         | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S63.284D | Dislocation of proximal interphalangeal joint of right ring finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.284S | Dislocation of proximal interphalangeal joint of right ring finger, sequela                | Diagnosis     | ICD-10-CM |
| S63.285  | Dislocation of proximal interphalangeal joint of left ring finger                          | Diagnosis     | ICD-10-CM |
| S63.285A | Dislocation of proximal interphalangeal joint of left ring finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S63.285D | Dislocation of proximal interphalangeal joint of left ring finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S63.285S | Dislocation of proximal interphalangeal joint of left ring finger, sequela                 | Diagnosis     | ICD-10-CM |
| S63.286  | Dislocation of proximal interphalangeal joint of right little finger                       | Diagnosis     | ICD-10-CM |
| S63.286A | Dislocation of proximal interphalangeal joint of right little finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.286D | Dislocation of proximal interphalangeal joint of right little finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.286S | Dislocation of proximal interphalangeal joint of right little finger, sequela              | Diagnosis     | ICD-10-CM |
| S63.287  | Dislocation of proximal interphalangeal joint of left little finger                        | Diagnosis     | ICD-10-CM |
| S63.287A | Dislocation of proximal interphalangeal joint of left little finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.287D | Dislocation of proximal interphalangeal joint of left little finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.287S | Dislocation of proximal interphalangeal joint of left little finger, sequela               | Diagnosis     | ICD-10-CM |
| S63.288  | Dislocation of proximal interphalangeal joint of other finger                              | Diagnosis     | ICD-10-CM |
| S63.288A | Dislocation of proximal interphalangeal joint of other finger, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.288D | Dislocation of proximal interphalangeal joint of other finger, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.288S | Dislocation of proximal interphalangeal joint of other finger, sequela                     | Diagnosis     | ICD-10-CM |
| S63.289  | Dislocation of proximal interphalangeal joint of unspecified finger                        | Diagnosis     | ICD-10-CM |
| S63.289A | Dislocation of proximal interphalangeal joint of unspecified finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.289D | Dislocation of proximal interphalangeal joint of unspecified finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.289S | Dislocation of proximal interphalangeal joint of unspecified finger, sequela               | Diagnosis     | ICD-10-CM |
| S63.29   | Dislocation of distal interphalangeal joint of finger                                      | Diagnosis     | ICD-10-CM |
| S63.290  | Dislocation of distal interphalangeal joint of right index finger                          | Diagnosis     | ICD-10-CM |
| S63.290A | Dislocation of distal interphalangeal joint of right index finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S63.290D | Dislocation of distal interphalangeal joint of right index finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S63.290S | Dislocation of distal interphalangeal joint of right index finger, sequela                 | Diagnosis     | ICD-10-CM |
| S63.291  | Dislocation of distal interphalangeal joint of left index finger                           | Diagnosis     | ICD-10-CM |
| S63.291A | Dislocation of distal interphalangeal joint of left index finger, initial encounter        | Diagnosis     | ICD-10-CM |
| S63.291D | Dislocation of distal interphalangeal joint of left index finger, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S63.291S | Dislocation of distal interphalangeal joint of left index finger, sequela                  | Diagnosis     | ICD-10-CM |
| S63.292  | Dislocation of distal interphalangeal joint of right middle finger                         | Diagnosis     | ICD-10-CM |
| S63.292A | Dislocation of distal interphalangeal joint of right middle finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.292D | Dislocation of distal interphalangeal joint of right middle finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.292S | Dislocation of distal interphalangeal joint of right middle finger, sequela                | Diagnosis     | ICD-10-CM |
| S63.293  | Dislocation of distal interphalangeal joint of left middle finger                          | Diagnosis     | ICD-10-CM |
| S63.293A | Dislocation of distal interphalangeal joint of left middle finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S63.293D | Dislocation of distal interphalangeal joint of left middle finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S63.293S | Dislocation of distal interphalangeal joint of left middle finger, sequela                 | Diagnosis     | ICD-10-CM |
| S63.294  | Dislocation of distal interphalangeal joint of right ring finger                           | Diagnosis     | ICD-10-CM |
| S63.294A | Dislocation of distal interphalangeal joint of right ring finger, initial encounter        | Diagnosis     | ICD-10-CM |
| S63.294D | Dislocation of distal interphalangeal joint of right ring finger, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S63.294S | Dislocation of distal interphalangeal joint of right ring finger, sequela                  | Diagnosis     | ICD-10-CM |
| S63.295  | Dislocation of distal interphalangeal joint of left ring finger                            | Diagnosis     | ICD-10-CM |
| S63.295A | Dislocation of distal interphalangeal joint of left ring finger, initial encounter         | Diagnosis     | ICD-10-CM |
| S63.295D | Dislocation of distal interphalangeal joint of left ring finger, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S63.295S | Dislocation of distal interphalangeal joint of left ring finger, sequela                   | Diagnosis     | ICD-10-CM |
| S63.296  | Dislocation of distal interphalangeal joint of right little finger                         | Diagnosis     | ICD-10-CM |
| S63.296A | Dislocation of distal interphalangeal joint of right little finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.296D | Dislocation of distal interphalangeal joint of right little finger, subsequent encounter   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S63.296S | Dislocation of distal interphalangeal joint of right little finger, sequela             | Diagnosis     | ICD-10-CM |
| S63.297  | Dislocation of distal interphalangeal joint of left little finger                       | Diagnosis     | ICD-10-CM |
| S63.297A | Dislocation of distal interphalangeal joint of left little finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.297D | Dislocation of distal interphalangeal joint of left little finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.297S | Dislocation of distal interphalangeal joint of left little finger, sequela              | Diagnosis     | ICD-10-CM |
| S63.298  | Dislocation of distal interphalangeal joint of other finger                             | Diagnosis     | ICD-10-CM |
| S63.298A | Dislocation of distal interphalangeal joint of other finger, initial encounter          | Diagnosis     | ICD-10-CM |
| S63.298D | Dislocation of distal interphalangeal joint of other finger, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S63.298S | Dislocation of distal interphalangeal joint of other finger, sequela                    | Diagnosis     | ICD-10-CM |
| S63.299  | Dislocation of distal interphalangeal joint of unspecified finger                       | Diagnosis     | ICD-10-CM |
| S63.299A | Dislocation of distal interphalangeal joint of unspecified finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.299D | Dislocation of distal interphalangeal joint of unspecified finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.299S | Dislocation of distal interphalangeal joint of unspecified finger, sequela              | Diagnosis     | ICD-10-CM |
| S63.3    | Traumatic rupture of ligament of wrist  | Diagnosis     | ICD-10-CM |
| S63.30   | Traumatic rupture of unspecified ligament of wrist                                      | Diagnosis     | ICD-10-CM |
| S63.301  | Traumatic rupture of unspecified ligament of right wrist                                | Diagnosis     | ICD-10-CM |
| S63.301A | Traumatic rupture of unspecified ligament of right wrist, initial encounter             | Diagnosis     | ICD-10-CM |
| S63.301D | Traumatic rupture of unspecified ligament of right wrist, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S63.301S | Traumatic rupture of unspecified ligament of right wrist, sequela                       | Diagnosis     | ICD-10-CM |
| S63.302  | Traumatic rupture of unspecified ligament of left wrist                                 | Diagnosis     | ICD-10-CM |
| S63.302A | Traumatic rupture of unspecified ligament of left wrist, initial encounter              | Diagnosis     | ICD-10-CM |
| S63.302D | Traumatic rupture of unspecified ligament of left wrist, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S63.302S | Traumatic rupture of unspecified ligament of left wrist, sequela                        | Diagnosis     | ICD-10-CM |
| S63.309  | Traumatic rupture of unspecified ligament of unspecified wrist                          | Diagnosis     | ICD-10-CM |
| S63.309A | Traumatic rupture of unspecified ligament of unspecified wrist, initial encounter       | Diagnosis     | ICD-10-CM |
| S63.309D | Traumatic rupture of unspecified ligament of unspecified wrist, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S63.309S | Traumatic rupture of unspecified ligament of unspecified wrist, sequela                 | Diagnosis     | ICD-10-CM |
| S63.31   | Traumatic rupture of collateral ligament of wrist                                       | Diagnosis     | ICD-10-CM |
| S63.311  | Traumatic rupture of collateral ligament of right wrist                                 | Diagnosis     | ICD-10-CM |
| S63.311A | Traumatic rupture of collateral ligament of right wrist, initial encounter              | Diagnosis     | ICD-10-CM |
| S63.311D | Traumatic rupture of collateral ligament of right wrist, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S63.311S | Traumatic rupture of collateral ligament of right wrist, sequela                        | Diagnosis     | ICD-10-CM |
| S63.312  | Traumatic rupture of collateral ligament of left wrist                                  | Diagnosis     | ICD-10-CM |
| S63.312A | Traumatic rupture of collateral ligament of left wrist, initial encounter               | Diagnosis     | ICD-10-CM |
| S63.312D | Traumatic rupture of collateral ligament of left wrist, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S63.312S | Traumatic rupture of collateral ligament of left wrist, sequela                         | Diagnosis     | ICD-10-CM |
| S63.319  | Traumatic rupture of collateral ligament of unspecified wrist                           | Diagnosis     | ICD-10-CM |
| S63.319A | Traumatic rupture of collateral ligament of unspecified wrist, initial encounter        | Diagnosis     | ICD-10-CM |
| S63.319D | Traumatic rupture of collateral ligament of unspecified wrist, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S63.319S | Traumatic rupture of collateral ligament of unspecified wrist, sequela                  | Diagnosis     | ICD-10-CM |
| S63.32   | Traumatic rupture of radiocarpal ligament   | Diagnosis     | ICD-10-CM |
| S63.321  | Traumatic rupture of right radiocarpal ligament   | Diagnosis     | ICD-10-CM |
| S63.321A | Traumatic rupture of right radiocarpal ligament, initial encounter                      | Diagnosis     | ICD-10-CM |
| S63.321D | Traumatic rupture of right radiocarpal ligament, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S63.321S | Traumatic rupture of right radiocarpal ligament, sequela                                | Diagnosis     | ICD-10-CM |
| S63.322  | Traumatic rupture of left radiocarpal ligament  | Diagnosis     | ICD-10-CM |
| S63.322A | Traumatic rupture of left radiocarpal ligament, initial encounter                       | Diagnosis     | ICD-10-CM |
| S63.322D | Traumatic rupture of left radiocarpal ligament, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S63.322S | Traumatic rupture of left radiocarpal ligament, sequela                                 | Diagnosis     | ICD-10-CM |
| S63.329  | Traumatic rupture of unspecified radiocarpal ligament                                   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S63.329A | Traumatic rupture of unspecified radiocarpal ligament, initial encounter   | Diagnosis     | ICD-10-CM |
| S63.329D | Traumatic rupture of unspecified radiocarpal ligament, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.329S | Traumatic rupture of unspecified radiocarpal ligament, sequela   | Diagnosis     | ICD-10-CM |
| S63.33   | Traumatic rupture of ulnocarpal (palmar) ligament  | Diagnosis     | ICD-10-CM |
| S63.331  | Traumatic rupture of right ulnocarpal (palmar) ligament  | Diagnosis     | ICD-10-CM |
| S63.331A | Traumatic rupture of right ulnocarpal (palmar) ligament, initial encounter   | Diagnosis     | ICD-10-CM |
| S63.331D | Traumatic rupture of right ulnocarpal (palmar) ligament, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.331S | Traumatic rupture of right ulnocarpal (palmar) ligament, sequela   | Diagnosis     | ICD-10-CM |
| S63.332  | Traumatic rupture of left ulnocarpal (palmar) ligament   | Diagnosis     | ICD-10-CM |
| S63.332A | Traumatic rupture of left ulnocarpal (palmar) ligament, initial encounter  | Diagnosis     | ICD-10-CM |
| S63.332D | Traumatic rupture of left ulnocarpal (palmar) ligament, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.332S | Traumatic rupture of left ulnocarpal (palmar) ligament, sequela  | Diagnosis     | ICD-10-CM |
| S63.339  | Traumatic rupture of unspecified ulnocarpal (palmar) ligament  | Diagnosis     | ICD-10-CM |
| S63.339A | Traumatic rupture of unspecified ulnocarpal (palmar) ligament, initial encounter   | Diagnosis     | ICD-10-CM |
| S63.339D | Traumatic rupture of unspecified ulnocarpal (palmar) ligament, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.339S | Traumatic rupture of unspecified ulnocarpal (palmar) ligament, sequela   | Diagnosis     | ICD-10-CM |
| S63.39   | Traumatic rupture of other ligament of wrist   | Diagnosis     | ICD-10-CM |
| S63.391  | Traumatic rupture of other ligament of right wrist   | Diagnosis     | ICD-10-CM |
| S63.391A | Traumatic rupture of other ligament of right wrist, initial encounter  | Diagnosis     | ICD-10-CM |
| S63.391D | Traumatic rupture of other ligament of right wrist, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.391S | Traumatic rupture of other ligament of right wrist, sequela  | Diagnosis     | ICD-10-CM |
| S63.392  | Traumatic rupture of other ligament of left wrist  | Diagnosis     | ICD-10-CM |
| S63.392A | Traumatic rupture of other ligament of left wrist, initial encounter   | Diagnosis     | ICD-10-CM |
| S63.392D | Traumatic rupture of other ligament of left wrist, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.392S | Traumatic rupture of other ligament of left wrist, sequela   | Diagnosis     | ICD-10-CM |
| S63.399  | Traumatic rupture of other ligament of unspecified wrist   | Diagnosis     | ICD-10-CM |
| S63.399A | Traumatic rupture of other ligament of unspecified wrist, initial encounter  | Diagnosis     | ICD-10-CM |
| S63.399D | Traumatic rupture of other ligament of unspecified wrist, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.399S | Traumatic rupture of other ligament of unspecified wrist, sequela  | Diagnosis     | ICD-10-CM |
| S63.4    | Traumatic rupture of ligament of finger at metacarpophalangeal and interphalangeal joint(s)  | Diagnosis     | ICD-10-CM |
| S63.40   | Traumatic rupture of unspecified ligament of finger at metacarpophalangeal and interphalangeal joint                                   | Diagnosis     | ICD-10-CM |
| S63.400  | Traumatic rupture of unspecified ligament of right index finger at metacarpophalangeal and interphalangeal joint                       | Diagnosis     | ICD-10-CM |
| S63.400A | Traumatic rupture of unspecified ligament of right index finger at metacarpophalangeal and interphalangeal joint, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.400D | Traumatic rupture of unspecified ligament of right index finger at metacarpophalangeal and interphalangeal joint, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.400S | Traumatic rupture of unspecified ligament of right index finger at metacarpophalangeal and interphalangeal joint, sequela              | Diagnosis     | ICD-10-CM |
| S63.401  | Traumatic rupture of unspecified ligament of left index finger at metacarpophalangeal and interphalangeal joint                        | Diagnosis     | ICD-10-CM |
| S63.401A | Traumatic rupture of unspecified ligament of left index finger at metacarpophalangeal and interphalangeal joint, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.401D | Traumatic rupture of unspecified ligament of left index finger at metacarpophalangeal and interphalangeal joint, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.401S | Traumatic rupture of unspecified ligament of left index finger at metacarpophalangeal and interphalangeal joint, sequela               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S63.402  | Traumatic rupture of unspecified ligament of right middle finger at metacarpophalangeal and interphalangeal joint                       | Diagnosis     | ICD-10-CM |
| S63.402A | Traumatic rupture of unspecified ligament of right middle finger at metacarpophalangeal and interphalangeal joint, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.402D | Traumatic rupture of unspecified ligament of right middle finger at metacarpophalangeal and interphalangeal joint, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.402S | Traumatic rupture of unspecified ligament of right middle finger at metacarpophalangeal and interphalangeal joint, sequela              | Diagnosis     | ICD-10-CM |
| S63.403  | Traumatic rupture of unspecified ligament of left middle finger at metacarpophalangeal and interphalangeal joint                        | Diagnosis     | ICD-10-CM |
| S63.403A | Traumatic rupture of unspecified ligament of left middle finger at metacarpophalangeal and interphalangeal joint, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.403D | Traumatic rupture of unspecified ligament of left middle finger at metacarpophalangeal and interphalangeal joint, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.403S | Traumatic rupture of unspecified ligament of left middle finger at metacarpophalangeal and interphalangeal joint, sequela               | Diagnosis     | ICD-10-CM |
| S63.404  | Traumatic rupture of unspecified ligament of right ring finger at metacarpophalangeal and interphalangeal joint                         | Diagnosis     | ICD-10-CM |
| S63.404A | Traumatic rupture of unspecified ligament of right ring finger at metacarpophalangeal and interphalangeal joint, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.404D | Traumatic rupture of unspecified ligament of right ring finger at metacarpophalangeal and interphalangeal joint, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.404S | Traumatic rupture of unspecified ligament of right ring finger at metacarpophalangeal and interphalangeal joint, sequela                | Diagnosis     | ICD-10-CM |
| S63.405  | Traumatic rupture of unspecified ligament of left ring finger at metacarpophalangeal and interphalangeal joint                          | Diagnosis     | ICD-10-CM |
| S63.405A | Traumatic rupture of unspecified ligament of left ring finger at metacarpophalangeal and interphalangeal joint, initial encounter       | Diagnosis     | ICD-10-CM |
| S63.405D | Traumatic rupture of unspecified ligament of left ring finger at metacarpophalangeal and interphalangeal joint, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S63.405S | Traumatic rupture of unspecified ligament of left ring finger at metacarpophalangeal and interphalangeal joint, sequela                 | Diagnosis     | ICD-10-CM |
| S63.406  | Traumatic rupture of unspecified ligament of right little finger at metacarpophalangeal and interphalangeal joint                       | Diagnosis     | ICD-10-CM |
| S63.406A | Traumatic rupture of unspecified ligament of right little finger at metacarpophalangeal and interphalangeal joint, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.406D | Traumatic rupture of unspecified ligament of right little finger at metacarpophalangeal and interphalangeal joint, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.406S | Traumatic rupture of unspecified ligament of right little finger at metacarpophalangeal and interphalangeal joint, sequela              | Diagnosis     | ICD-10-CM |
| S63.407  | Traumatic rupture of unspecified ligament of left little finger at metacarpophalangeal and interphalangeal joint                        | Diagnosis     | ICD-10-CM |
| S63.407A | Traumatic rupture of unspecified ligament of left little finger at metacarpophalangeal and interphalangeal joint, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.407D | Traumatic rupture of unspecified ligament of left little finger at metacarpophalangeal and interphalangeal joint, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.407S | Traumatic rupture of unspecified ligament of left little finger at metacarpophalangeal and interphalangeal joint, sequela               | Diagnosis     | ICD-10-CM |
| S63.408  | Traumatic rupture of unspecified ligament of other finger at metacarpophalangeal and interphalangeal joint                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S63.408A | Traumatic rupture of unspecified ligament of other finger at metacarpophalangeal and interphalangeal joint, initial encounter          | Diagnosis     | ICD-10-CM |
| S63.408D | Traumatic rupture of unspecified ligament of other finger at metacarpophalangeal and interphalangeal joint, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S63.408S | Traumatic rupture of unspecified ligament of other finger at metacarpophalangeal and interphalangeal joint, sequela                    | Diagnosis     | ICD-10-CM |
| S63.409  | Traumatic rupture of unspecified ligament of unspecified finger at metacarpophalangeal and interphalangeal joint                       | Diagnosis     | ICD-10-CM |
| S63.409A | Traumatic rupture of unspecified ligament of unspecified finger at metacarpophalangeal and interphalangeal joint, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.409D | Traumatic rupture of unspecified ligament of unspecified finger at metacarpophalangeal and interphalangeal joint, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.409S | Traumatic rupture of unspecified ligament of unspecified finger at metacarpophalangeal and interphalangeal joint, sequela              | Diagnosis     | ICD-10-CM |
| S63.41   | Traumatic rupture of collateral ligament of finger at metacarpophalangeal and interphalangeal joint                                    | Diagnosis     | ICD-10-CM |
| S63.410  | Traumatic rupture of collateral ligament of right index finger at metacarpophalangeal and interphalangeal joint                        | Diagnosis     | ICD-10-CM |
| S63.410A | Traumatic rupture of collateral ligament of right index finger at metacarpophalangeal and interphalangeal joint, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.410D | Traumatic rupture of collateral ligament of right index finger at metacarpophalangeal and interphalangeal joint, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.410S | Traumatic rupture of collateral ligament of right index finger at metacarpophalangeal and interphalangeal joint, sequela               | Diagnosis     | ICD-10-CM |
| S63.411  | Traumatic rupture of collateral ligament of left index finger at metacarpophalangeal and interphalangeal joint                         | Diagnosis     | ICD-10-CM |
| S63.411A | Traumatic rupture of collateral ligament of left index finger at metacarpophalangeal and interphalangeal joint, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.411D | Traumatic rupture of collateral ligament of left index finger at metacarpophalangeal and interphalangeal joint, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.411S | Traumatic rupture of collateral ligament of left index finger at metacarpophalangeal and interphalangeal joint, sequela                | Diagnosis     | ICD-10-CM |
| S63.412  | Traumatic rupture of collateral ligament of right middle finger at metacarpophalangeal and interphalangeal joint                       | Diagnosis     | ICD-10-CM |
| S63.412A | Traumatic rupture of collateral ligament of right middle finger at metacarpophalangeal and interphalangeal joint, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.412D | Traumatic rupture of collateral ligament of right middle finger at metacarpophalangeal and interphalangeal joint, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.412S | Traumatic rupture of collateral ligament of right middle finger at metacarpophalangeal and interphalangeal joint, sequela              | Diagnosis     | ICD-10-CM |
| S63.413  | Traumatic rupture of collateral ligament of left middle finger at metacarpophalangeal and interphalangeal joint                        | Diagnosis     | ICD-10-CM |
| S63.413A | Traumatic rupture of collateral ligament of left middle finger at metacarpophalangeal and interphalangeal joint, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.413D | Traumatic rupture of collateral ligament of left middle finger at metacarpophalangeal and interphalangeal joint, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.413S | Traumatic rupture of collateral ligament of left middle finger at metacarpophalangeal and interphalangeal joint, sequela               | Diagnosis     | ICD-10-CM |
| S63.414  | Traumatic rupture of collateral ligament of right ring finger at metacarpophalangeal and interphalangeal joint                         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S63.414A | Traumatic rupture of collateral ligament of right ring finger at metacarpophalangeal and interphalangeal joint, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.414D | Traumatic rupture of collateral ligament of right ring finger at metacarpophalangeal and interphalangeal joint, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.414S | Traumatic rupture of collateral ligament of right ring finger at metacarpophalangeal and interphalangeal joint, sequela                | Diagnosis     | ICD-10-CM |
| S63.415  | Traumatic rupture of collateral ligament of left ring finger at metacarpophalangeal and interphalangeal joint                          | Diagnosis     | ICD-10-CM |
| S63.415A | Traumatic rupture of collateral ligament of left ring finger at metacarpophalangeal and interphalangeal joint, initial encounter       | Diagnosis     | ICD-10-CM |
| S63.415D | Traumatic rupture of collateral ligament of left ring finger at metacarpophalangeal and interphalangeal joint, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S63.415S | Traumatic rupture of collateral ligament of left ring finger at metacarpophalangeal and interphalangeal joint, sequela                 | Diagnosis     | ICD-10-CM |
| S63.416  | Traumatic rupture of collateral ligament of right little finger at metacarpophalangeal and interphalangeal joint                       | Diagnosis     | ICD-10-CM |
| S63.416A | Traumatic rupture of collateral ligament of right little finger at metacarpophalangeal and interphalangeal joint, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.416D | Traumatic rupture of collateral ligament of right little finger at metacarpophalangeal and interphalangeal joint, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.416S | Traumatic rupture of collateral ligament of right little finger at metacarpophalangeal and interphalangeal joint, sequela              | Diagnosis     | ICD-10-CM |
| S63.417  | Traumatic rupture of collateral ligament of left little finger at metacarpophalangeal and interphalangeal joint                        | Diagnosis     | ICD-10-CM |
| S63.417A | Traumatic rupture of collateral ligament of left little finger at metacarpophalangeal and interphalangeal joint, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.417D | Traumatic rupture of collateral ligament of left little finger at metacarpophalangeal and interphalangeal joint, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.417S | Traumatic rupture of collateral ligament of left little finger at metacarpophalangeal and interphalangeal joint, sequela               | Diagnosis     | ICD-10-CM |
| S63.418  | Traumatic rupture of collateral ligament of other finger at metacarpophalangeal and interphalangeal joint                              | Diagnosis     | ICD-10-CM |
| S63.418A | Traumatic rupture of collateral ligament of other finger at metacarpophalangeal and interphalangeal joint, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.418D | Traumatic rupture of collateral ligament of other finger at metacarpophalangeal and interphalangeal joint, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.418S | Traumatic rupture of collateral ligament of other finger at metacarpophalangeal and interphalangeal joint, sequela                     | Diagnosis     | ICD-10-CM |
| S63.419  | Traumatic rupture of collateral ligament of unspecified finger at metacarpophalangeal and interphalangeal joint                        | Diagnosis     | ICD-10-CM |
| S63.419A | Traumatic rupture of collateral ligament of unspecified finger at metacarpophalangeal and interphalangeal joint, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.419D | Traumatic rupture of collateral ligament of unspecified finger at metacarpophalangeal and interphalangeal joint, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.419S | Traumatic rupture of collateral ligament of unspecified finger at metacarpophalangeal and interphalangeal joint, sequela               | Diagnosis     | ICD-10-CM |
| S63.42   | Traumatic rupture of palmar ligament of finger at metacarpophalangeal and interphalangeal joint  | Diagnosis     | ICD-10-CM |
| S63.420  | Traumatic rupture of palmar ligament of right index finger at metacarpophalangeal and interphalangeal joint                            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S63.420A | Traumatic rupture of palmar ligament of right index finger at metacarpophalangeal and interphalangeal joint, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.420D | Traumatic rupture of palmar ligament of right index finger at metacarpophalangeal and interphalangeal joint, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.420S | Traumatic rupture of palmar ligament of right index finger at metacarpophalangeal and interphalangeal joint, sequela               | Diagnosis     | ICD-10-CM |
| S63.421  | Traumatic rupture of palmar ligament of left index finger at metacarpophalangeal and interphalangeal joint                         | Diagnosis     | ICD-10-CM |
| S63.421A | Traumatic rupture of palmar ligament of left index finger at metacarpophalangeal and interphalangeal joint, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.421D | Traumatic rupture of palmar ligament of left index finger at metacarpophalangeal and interphalangeal joint, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.421S | Traumatic rupture of palmar ligament of left index finger at metacarpophalangeal and interphalangeal joint, sequela                | Diagnosis     | ICD-10-CM |
| S63.422  | Traumatic rupture of palmar ligament of right middle finger at metacarpophalangeal and interphalangeal joint                       | Diagnosis     | ICD-10-CM |
| S63.422A | Traumatic rupture of palmar ligament of right middle finger at metacarpophalangeal and interphalangeal joint, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.422D | Traumatic rupture of palmar ligament of right middle finger at metacarpophalangeal and interphalangeal joint, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.422S | Traumatic rupture of palmar ligament of right middle finger at metacarpophalangeal and interphalangeal joint, sequela              | Diagnosis     | ICD-10-CM |
| S63.423  | Traumatic rupture of palmar ligament of left middle finger at metacarpophalangeal and interphalangeal joint                        | Diagnosis     | ICD-10-CM |
| S63.423A | Traumatic rupture of palmar ligament of left middle finger at metacarpophalangeal and interphalangeal joint, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.423D | Traumatic rupture of palmar ligament of left middle finger at metacarpophalangeal and interphalangeal joint, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.423S | Traumatic rupture of palmar ligament of left middle finger at metacarpophalangeal and interphalangeal joint, sequela               | Diagnosis     | ICD-10-CM |
| S63.424  | Traumatic rupture of palmar ligament of right ring finger at metacarpophalangeal and interphalangeal joint                         | Diagnosis     | ICD-10-CM |
| S63.424A | Traumatic rupture of palmar ligament of right ring finger at metacarpophalangeal and interphalangeal joint, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.424D | Traumatic rupture of palmar ligament of right ring finger at metacarpophalangeal and interphalangeal joint, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.424S | Traumatic rupture of palmar ligament of right ring finger at metacarpophalangeal and interphalangeal joint, sequela                | Diagnosis     | ICD-10-CM |
| S63.425  | Traumatic rupture of palmar ligament of left ring finger at metacarpophalangeal and interphalangeal joint                          | Diagnosis     | ICD-10-CM |
| S63.425A | Traumatic rupture of palmar ligament of left ring finger at metacarpophalangeal and interphalangeal joint, initial encounter       | Diagnosis     | ICD-10-CM |
| S63.425D | Traumatic rupture of palmar ligament of left ring finger at metacarpophalangeal and interphalangeal joint, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S63.425S | Traumatic rupture of palmar ligament of left ring finger at metacarpophalangeal and interphalangeal joint, sequela                 | Diagnosis     | ICD-10-CM |
| S63.426  | Traumatic rupture of palmar ligament of right little finger at metacarpophalangeal and interphalangeal joint                       | Diagnosis     | ICD-10-CM |
| S63.426A | Traumatic rupture of palmar ligament of right little finger at metacarpophalangeal and interphalangeal joint, initial encounter    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S63.426D | Traumatic rupture of palmar ligament of right little finger at metacarpophalangeal and interphalangeal joint, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.426S | Traumatic rupture of palmar ligament of right little finger at metacarpophalangeal and interphalangeal joint, sequela              | Diagnosis     | ICD-10-CM |
| S63.427  | Traumatic rupture of palmar ligament of left little finger at metacarpophalangeal and interphalangeal joint                        | Diagnosis     | ICD-10-CM |
| S63.427A | Traumatic rupture of palmar ligament of left little finger at metacarpophalangeal and interphalangeal joint, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.427D | Traumatic rupture of palmar ligament of left little finger at metacarpophalangeal and interphalangeal joint, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.427S | Traumatic rupture of palmar ligament of left little finger at metacarpophalangeal and interphalangeal joint, sequela               | Diagnosis     | ICD-10-CM |
| S63.428  | Traumatic rupture of palmar ligament of other finger at metacarpophalangeal and interphalangeal joint                              | Diagnosis     | ICD-10-CM |
| S63.428A | Traumatic rupture of palmar ligament of other finger at metacarpophalangeal and interphalangeal joint, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.428D | Traumatic rupture of palmar ligament of other finger at metacarpophalangeal and interphalangeal joint, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.428S | Traumatic rupture of palmar ligament of other finger at metacarpophalangeal and interphalangeal joint, sequela                     | Diagnosis     | ICD-10-CM |
| S63.429  | Traumatic rupture of palmar ligament of unspecified finger at metacarpophalangeal and interphalangeal joint                        | Diagnosis     | ICD-10-CM |
| S63.429A | Traumatic rupture of palmar ligament of unspecified finger at metacarpophalangeal and interphalangeal joint, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.429D | Traumatic rupture of palmar ligament of unspecified finger at metacarpophalangeal and interphalangeal joint, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.429S | Traumatic rupture of palmar ligament of unspecified finger at metacarpophalangeal and interphalangeal joint, sequela               | Diagnosis     | ICD-10-CM |
| S63.43   | Traumatic rupture of volar plate of finger at metacarpophalangeal and interphalangeal joint  | Diagnosis     | ICD-10-CM |
| S63.430  | Traumatic rupture of volar plate of right index finger at metacarpophalangeal and interphalangeal joint                            | Diagnosis     | ICD-10-CM |
| S63.430A | Traumatic rupture of volar plate of right index finger at metacarpophalangeal and interphalangeal joint, initial encounter         | Diagnosis     | ICD-10-CM |
| S63.430D | Traumatic rupture of volar plate of right index finger at metacarpophalangeal and interphalangeal joint, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S63.430S | Traumatic rupture of volar plate of right index finger at metacarpophalangeal and interphalangeal joint, sequela                   | Diagnosis     | ICD-10-CM |
| S63.431  | Traumatic rupture of volar plate of left index finger at metacarpophalangeal and interphalangeal joint                             | Diagnosis     | ICD-10-CM |
| S63.431A | Traumatic rupture of volar plate of left index finger at metacarpophalangeal and interphalangeal joint, initial encounter          | Diagnosis     | ICD-10-CM |
| S63.431D | Traumatic rupture of volar plate of left index finger at metacarpophalangeal and interphalangeal joint, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S63.431S | Traumatic rupture of volar plate of left index finger at metacarpophalangeal and interphalangeal joint, sequela                    | Diagnosis     | ICD-10-CM |
| S63.432  | Traumatic rupture of volar plate of right middle finger at metacarpophalangeal and interphalangeal joint                           | Diagnosis     | ICD-10-CM |
| S63.432A | Traumatic rupture of volar plate of right middle finger at metacarpophalangeal and interphalangeal joint, initial encounter        | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S63.432D | Traumatic rupture of volar plate of right middle finger at metacarpophalangeal and interphalangeal joint, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.432S | Traumatic rupture of volar plate of right middle finger at metacarpophalangeal and interphalangeal joint, sequela              | Diagnosis     | ICD-10-CM |
| S63.433  | Traumatic rupture of volar plate of left middle finger at metacarpophalangeal and interphalangeal joint                        | Diagnosis     | ICD-10-CM |
| S63.433A | Traumatic rupture of volar plate of left middle finger at metacarpophalangeal and interphalangeal joint, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.433D | Traumatic rupture of volar plate of left middle finger at metacarpophalangeal and interphalangeal joint, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.433S | Traumatic rupture of volar plate of left middle finger at metacarpophalangeal and interphalangeal joint, sequela               | Diagnosis     | ICD-10-CM |
| S63.434  | Traumatic rupture of volar plate of right ring finger at metacarpophalangeal and interphalangeal joint                         | Diagnosis     | ICD-10-CM |
| S63.434A | Traumatic rupture of volar plate of right ring finger at metacarpophalangeal and interphalangeal joint, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.434D | Traumatic rupture of volar plate of right ring finger at metacarpophalangeal and interphalangeal joint, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.434S | Traumatic rupture of volar plate of right ring finger at metacarpophalangeal and interphalangeal joint, sequela                | Diagnosis     | ICD-10-CM |
| S63.435  | Traumatic rupture of volar plate of left ring finger at metacarpophalangeal and interphalangeal joint                          | Diagnosis     | ICD-10-CM |
| S63.435A | Traumatic rupture of volar plate of left ring finger at metacarpophalangeal and interphalangeal joint, initial encounter       | Diagnosis     | ICD-10-CM |
| S63.435D | Traumatic rupture of volar plate of left ring finger at metacarpophalangeal and interphalangeal joint, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S63.435S | Traumatic rupture of volar plate of left ring finger at metacarpophalangeal and interphalangeal joint, sequela                 | Diagnosis     | ICD-10-CM |
| S63.436  | Traumatic rupture of volar plate of right little finger at metacarpophalangeal and interphalangeal joint                       | Diagnosis     | ICD-10-CM |
| S63.436A | Traumatic rupture of volar plate of right little finger at metacarpophalangeal and interphalangeal joint, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.436D | Traumatic rupture of volar plate of right little finger at metacarpophalangeal and interphalangeal joint, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.436S | Traumatic rupture of volar plate of right little finger at metacarpophalangeal and interphalangeal joint, sequela              | Diagnosis     | ICD-10-CM |
| S63.437  | Traumatic rupture of volar plate of left little finger at metacarpophalangeal and interphalangeal joint                        | Diagnosis     | ICD-10-CM |
| S63.437A | Traumatic rupture of volar plate of left little finger at metacarpophalangeal and interphalangeal joint, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.437D | Traumatic rupture of volar plate of left little finger at metacarpophalangeal and interphalangeal joint, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.437S | Traumatic rupture of volar plate of left little finger at metacarpophalangeal and interphalangeal joint, sequela               | Diagnosis     | ICD-10-CM |
| S63.438  | Traumatic rupture of volar plate of other finger at metacarpophalangeal and interphalangeal joint                              | Diagnosis     | ICD-10-CM |
| S63.438A | Traumatic rupture of volar plate of other finger at metacarpophalangeal and interphalangeal joint, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.438D | Traumatic rupture of volar plate of other finger at metacarpophalangeal and interphalangeal joint, subsequent encounter        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S63.438S | Traumatic rupture of volar plate of other finger at metacarpophalangeal and interphalangeal joint, sequela                        | Diagnosis     | ICD-10-CM |
| S63.439  | Traumatic rupture of volar plate of unspecified finger at metacarpophalangeal and interphalangeal joint                           | Diagnosis     | ICD-10-CM |
| S63.439A | Traumatic rupture of volar plate of unspecified finger at metacarpophalangeal and interphalangeal joint, initial encounter        | Diagnosis     | ICD-10-CM |
| S63.439D | Traumatic rupture of volar plate of unspecified finger at metacarpophalangeal and interphalangeal joint, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S63.439S | Traumatic rupture of volar plate of unspecified finger at metacarpophalangeal and interphalangeal joint, sequela                  | Diagnosis     | ICD-10-CM |
| S63.49   | Traumatic rupture of other ligament of finger at metacarpophalangeal and interphalangeal joint                                    | Diagnosis     | ICD-10-CM |
| S63.490  | Traumatic rupture of other ligament of right index finger at metacarpophalangeal and interphalangeal joint                        | Diagnosis     | ICD-10-CM |
| S63.490A | Traumatic rupture of other ligament of right index finger at metacarpophalangeal and interphalangeal joint, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.490D | Traumatic rupture of other ligament of right index finger at metacarpophalangeal and interphalangeal joint, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.490S | Traumatic rupture of other ligament of right index finger at metacarpophalangeal and interphalangeal joint, sequela               | Diagnosis     | ICD-10-CM |
| S63.491  | Traumatic rupture of other ligament of left index finger at metacarpophalangeal and interphalangeal joint                         | Diagnosis     | ICD-10-CM |
| S63.491A | Traumatic rupture of other ligament of left index finger at metacarpophalangeal and interphalangeal joint, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.491D | Traumatic rupture of other ligament of left index finger at metacarpophalangeal and interphalangeal joint, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.491S | Traumatic rupture of other ligament of left index finger at metacarpophalangeal and interphalangeal joint, sequela                | Diagnosis     | ICD-10-CM |
| S63.492  | Traumatic rupture of other ligament of right middle finger at metacarpophalangeal and interphalangeal joint                       | Diagnosis     | ICD-10-CM |
| S63.492A | Traumatic rupture of other ligament of right middle finger at metacarpophalangeal and interphalangeal joint, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.492D | Traumatic rupture of other ligament of right middle finger at metacarpophalangeal and interphalangeal joint, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.492S | Traumatic rupture of other ligament of right middle finger at metacarpophalangeal and interphalangeal joint, sequela              | Diagnosis     | ICD-10-CM |
| S63.493  | Traumatic rupture of other ligament of left middle finger at metacarpophalangeal and interphalangeal joint                        | Diagnosis     | ICD-10-CM |
| S63.493A | Traumatic rupture of other ligament of left middle finger at metacarpophalangeal and interphalangeal joint, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.493D | Traumatic rupture of other ligament of left middle finger at metacarpophalangeal and interphalangeal joint, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.493S | Traumatic rupture of other ligament of left middle finger at metacarpophalangeal and interphalangeal joint, sequela               | Diagnosis     | ICD-10-CM |
| S63.494  | Traumatic rupture of other ligament of right ring finger at metacarpophalangeal and interphalangeal joint                         | Diagnosis     | ICD-10-CM |
| S63.494A | Traumatic rupture of other ligament of right ring finger at metacarpophalangeal and interphalangeal joint, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.494D | Traumatic rupture of other ligament of right ring finger at metacarpophalangeal and interphalangeal joint, subsequent encounter   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S63.494S | Traumatic rupture of other ligament of right ring finger at metacarpophalangeal and interphalangeal joint, sequela                | Diagnosis     | ICD-10-CM |
| S63.495  | Traumatic rupture of other ligament of left ring finger at metacarpophalangeal and interphalangeal joint                          | Diagnosis     | ICD-10-CM |
| S63.495A | Traumatic rupture of other ligament of left ring finger at metacarpophalangeal and interphalangeal joint, initial encounter       | Diagnosis     | ICD-10-CM |
| S63.495D | Traumatic rupture of other ligament of left ring finger at metacarpophalangeal and interphalangeal joint, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S63.495S | Traumatic rupture of other ligament of left ring finger at metacarpophalangeal and interphalangeal joint, sequela                 | Diagnosis     | ICD-10-CM |
| S63.496  | Traumatic rupture of other ligament of right little finger at metacarpophalangeal and interphalangeal joint                       | Diagnosis     | ICD-10-CM |
| S63.496A | Traumatic rupture of other ligament of right little finger at metacarpophalangeal and interphalangeal joint, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.496D | Traumatic rupture of other ligament of right little finger at metacarpophalangeal and interphalangeal joint, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.496S | Traumatic rupture of other ligament of right little finger at metacarpophalangeal and interphalangeal joint, sequela              | Diagnosis     | ICD-10-CM |
| S63.497  | Traumatic rupture of other ligament of left little finger at metacarpophalangeal and interphalangeal joint                        | Diagnosis     | ICD-10-CM |
| S63.497A | Traumatic rupture of other ligament of left little finger at metacarpophalangeal and interphalangeal joint, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.497D | Traumatic rupture of other ligament of left little finger at metacarpophalangeal and interphalangeal joint, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.497S | Traumatic rupture of other ligament of left little finger at metacarpophalangeal and interphalangeal joint, sequela               | Diagnosis     | ICD-10-CM |
| S63.498  | Traumatic rupture of other ligament of other finger at metacarpophalangeal and interphalangeal joint                              | Diagnosis     | ICD-10-CM |
| S63.498A | Traumatic rupture of other ligament of other finger at metacarpophalangeal and interphalangeal joint, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.498D | Traumatic rupture of other ligament of other finger at metacarpophalangeal and interphalangeal joint, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.498S | Traumatic rupture of other ligament of other finger at metacarpophalangeal and interphalangeal joint, sequela                     | Diagnosis     | ICD-10-CM |
| S63.499  | Traumatic rupture of other ligament of unspecified finger at metacarpophalangeal and interphalangeal joint                        | Diagnosis     | ICD-10-CM |
| S63.499A | Traumatic rupture of other ligament of unspecified finger at metacarpophalangeal and interphalangeal joint, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.499D | Traumatic rupture of other ligament of unspecified finger at metacarpophalangeal and interphalangeal joint, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.499S | Traumatic rupture of other ligament of unspecified finger at metacarpophalangeal and interphalangeal joint, sequela               | Diagnosis     | ICD-10-CM |
| S63.5    | Other and unspecified sprain of wrist   | Diagnosis     | ICD-10-CM |
| S63.50   | Unspecified sprain of wrist   | Diagnosis     | ICD-10-CM |
| S63.501  | Unspecified sprain of right wrist   | Diagnosis     | ICD-10-CM |
| S63.501A | Unspecified sprain of right wrist, initial encounter  | Diagnosis     | ICD-10-CM |
| S63.501D | Unspecified sprain of right wrist, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.501S | Unspecified sprain of right wrist, sequela  | Diagnosis     | ICD-10-CM |
| S63.502  | Unspecified sprain of left wrist  | Diagnosis     | ICD-10-CM |
| S63.502A | Unspecified sprain of left wrist, initial encounter   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S63.502D | Unspecified sprain of left wrist, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S63.502S | Unspecified sprain of left wrist, sequela                              | Diagnosis     | ICD-10-CM |
| S63.509  | Unspecified sprain of unspecified wrist                                | Diagnosis     | ICD-10-CM |
| S63.509A | Unspecified sprain of unspecified wrist, initial encounter             | Diagnosis     | ICD-10-CM |
| S63.509D | Unspecified sprain of unspecified wrist, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S63.509S | Unspecified sprain of unspecified wrist, sequela                       | Diagnosis     | ICD-10-CM |
| S63.51   | Sprain of carpal (joint)   | Diagnosis     | ICD-10-CM |
| S63.511  | Sprain of carpal joint of right wrist                                  | Diagnosis     | ICD-10-CM |
| S63.511A | Sprain of carpal joint of right wrist, initial encounter               | Diagnosis     | ICD-10-CM |
| S63.511D | Sprain of carpal joint of right wrist, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S63.511S | Sprain of carpal joint of right wrist, sequela                         | Diagnosis     | ICD-10-CM |
| S63.512  | Sprain of carpal joint of left wrist                                   | Diagnosis     | ICD-10-CM |
| S63.512A | Sprain of carpal joint of left wrist, initial encounter                | Diagnosis     | ICD-10-CM |
| S63.512D | Sprain of carpal joint of left wrist, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S63.512S | Sprain of carpal joint of left wrist, sequela                          | Diagnosis     | ICD-10-CM |
| S63.519  | Sprain of carpal joint of unspecified wrist                            | Diagnosis     | ICD-10-CM |
| S63.519A | Sprain of carpal joint of unspecified wrist, initial encounter         | Diagnosis     | ICD-10-CM |
| S63.519D | Sprain of carpal joint of unspecified wrist, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S63.519S | Sprain of carpal joint of unspecified wrist, sequela                   | Diagnosis     | ICD-10-CM |
| S63.52   | Sprain of radiocarpal joint  | Diagnosis     | ICD-10-CM |
| S63.521  | Sprain of radiocarpal joint of right wrist                             | Diagnosis     | ICD-10-CM |
| S63.521A | Sprain of radiocarpal joint of right wrist, initial encounter          | Diagnosis     | ICD-10-CM |
| S63.521D | Sprain of radiocarpal joint of right wrist, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S63.521S | Sprain of radiocarpal joint of right wrist, sequela                    | Diagnosis     | ICD-10-CM |
| S63.522  | Sprain of radiocarpal joint of left wrist                              | Diagnosis     | ICD-10-CM |
| S63.522A | Sprain of radiocarpal joint of left wrist, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.522D | Sprain of radiocarpal joint of left wrist, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.522S | Sprain of radiocarpal joint of left wrist, sequela                     | Diagnosis     | ICD-10-CM |
| S63.529  | Sprain of radiocarpal joint of unspecified wrist                       | Diagnosis     | ICD-10-CM |
| S63.529A | Sprain of radiocarpal joint of unspecified wrist, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.529D | Sprain of radiocarpal joint of unspecified wrist, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.529S | Sprain of radiocarpal joint of unspecified wrist, sequela              | Diagnosis     | ICD-10-CM |
| S63.59   | Other specified sprain of wrist  | Diagnosis     | ICD-10-CM |
| S63.591  | Other specified sprain of right wrist                                  | Diagnosis     | ICD-10-CM |
| S63.591A | Other specified sprain of right wrist, initial encounter               | Diagnosis     | ICD-10-CM |
| S63.591D | Other specified sprain of right wrist, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S63.591S | Other specified sprain of right wrist, sequela                         | Diagnosis     | ICD-10-CM |
| S63.592  | Other specified sprain of left wrist                                   | Diagnosis     | ICD-10-CM |
| S63.592A | Other specified sprain of left wrist, initial encounter                | Diagnosis     | ICD-10-CM |
| S63.592D | Other specified sprain of left wrist, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S63.592S | Other specified sprain of left wrist, sequela                          | Diagnosis     | ICD-10-CM |
| S63.599  | Other specified sprain of unspecified wrist                            | Diagnosis     | ICD-10-CM |
| S63.599A | Other specified sprain of unspecified wrist, initial encounter         | Diagnosis     | ICD-10-CM |
| S63.599D | Other specified sprain of unspecified wrist, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S63.599S | Other specified sprain of unspecified wrist, sequela                   | Diagnosis     | ICD-10-CM |
| S63.6    | Other and unspecified sprain of finger(s)                              | Diagnosis     | ICD-10-CM |
| S63.60   | Unspecified sprain of thumb  | Diagnosis     | ICD-10-CM |
| S63.601  | Unspecified sprain of right thumb                                      | Diagnosis     | ICD-10-CM |
| S63.601A | Unspecified sprain of right thumb, initial encounter                   | Diagnosis     | ICD-10-CM |
| S63.601D | Unspecified sprain of right thumb, subsequent encounter                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S63.601S | Unspecified sprain of right thumb, sequela                      | Diagnosis     | ICD-10-CM |
| S63.602  | Unspecified sprain of left thumb                                | Diagnosis     | ICD-10-CM |
| S63.602A | Unspecified sprain of left thumb, initial encounter             | Diagnosis     | ICD-10-CM |
| S63.602D | Unspecified sprain of left thumb, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S63.602S | Unspecified sprain of left thumb, sequela                       | Diagnosis     | ICD-10-CM |
| S63.609  | Unspecified sprain of unspecified thumb                         | Diagnosis     | ICD-10-CM |
| S63.609A | Unspecified sprain of unspecified thumb, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.609D | Unspecified sprain of unspecified thumb, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.609S | Unspecified sprain of unspecified thumb, sequela                | Diagnosis     | ICD-10-CM |
| S63.61   | Unspecified sprain of other and unspecified finger(s)           | Diagnosis     | ICD-10-CM |
| S63.610  | Unspecified sprain of right index finger                        | Diagnosis     | ICD-10-CM |
| S63.610A | Unspecified sprain of right index finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.610D | Unspecified sprain of right index finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.610S | Unspecified sprain of right index finger, sequela               | Diagnosis     | ICD-10-CM |
| S63.611  | Unspecified sprain of left index finger                         | Diagnosis     | ICD-10-CM |
| S63.611A | Unspecified sprain of left index finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.611D | Unspecified sprain of left index finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.611S | Unspecified sprain of left index finger, sequela                | Diagnosis     | ICD-10-CM |
| S63.612  | Unspecified sprain of right middle finger                       | Diagnosis     | ICD-10-CM |
| S63.612A | Unspecified sprain of right middle finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.612D | Unspecified sprain of right middle finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.612S | Unspecified sprain of right middle finger, sequela              | Diagnosis     | ICD-10-CM |
| S63.613  | Unspecified sprain of left middle finger                        | Diagnosis     | ICD-10-CM |
| S63.613A | Unspecified sprain of left middle finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.613D | Unspecified sprain of left middle finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.613S | Unspecified sprain of left middle finger, sequela               | Diagnosis     | ICD-10-CM |
| S63.614  | Unspecified sprain of right ring finger                         | Diagnosis     | ICD-10-CM |
| S63.614A | Unspecified sprain of right ring finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.614D | Unspecified sprain of right ring finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.614S | Unspecified sprain of right ring finger, sequela                | Diagnosis     | ICD-10-CM |
| S63.615  | Unspecified sprain of left ring finger                          | Diagnosis     | ICD-10-CM |
| S63.615A | Unspecified sprain of left ring finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S63.615D | Unspecified sprain of left ring finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S63.615S | Unspecified sprain of left ring finger, sequela                 | Diagnosis     | ICD-10-CM |
| S63.616  | Unspecified sprain of right little finger                       | Diagnosis     | ICD-10-CM |
| S63.616A | Unspecified sprain of right little finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.616D | Unspecified sprain of right little finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.616S | Unspecified sprain of right little finger, sequela              | Diagnosis     | ICD-10-CM |
| S63.617  | Unspecified sprain of left little finger                        | Diagnosis     | ICD-10-CM |
| S63.617A | Unspecified sprain of left little finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.617D | Unspecified sprain of left little finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.617S | Unspecified sprain of left little finger, sequela               | Diagnosis     | ICD-10-CM |
| S63.618  | Unspecified sprain of other finger                              | Diagnosis     | ICD-10-CM |
| S63.618A | Unspecified sprain of other finger, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.618D | Unspecified sprain of other finger, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.618S | Unspecified sprain of other finger, sequela                     | Diagnosis     | ICD-10-CM |
| S63.619  | Unspecified sprain of unspecified finger                        | Diagnosis     | ICD-10-CM |
| S63.619A | Unspecified sprain of unspecified finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.619D | Unspecified sprain of unspecified finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.619S | Unspecified sprain of unspecified finger, sequela               | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S63.62   | Sprain of interphalangeal joint of thumb                                     | Diagnosis     | ICD-10-CM |
| S63.621  | Sprain of interphalangeal joint of right thumb                               | Diagnosis     | ICD-10-CM |
| S63.621A | Sprain of interphalangeal joint of right thumb, initial encounter            | Diagnosis     | ICD-10-CM |
| S63.621D | Sprain of interphalangeal joint of right thumb, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S63.621S | Sprain of interphalangeal joint of right thumb, sequela                      | Diagnosis     | ICD-10-CM |
| S63.622  | Sprain of interphalangeal joint of left thumb                                | Diagnosis     | ICD-10-CM |
| S63.622A | Sprain of interphalangeal joint of left thumb, initial encounter             | Diagnosis     | ICD-10-CM |
| S63.622D | Sprain of interphalangeal joint of left thumb, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S63.622S | Sprain of interphalangeal joint of left thumb, sequela                       | Diagnosis     | ICD-10-CM |
| S63.629  | Sprain of interphalangeal joint of unspecified thumb                         | Diagnosis     | ICD-10-CM |
| S63.629A | Sprain of interphalangeal joint of unspecified thumb, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.629D | Sprain of interphalangeal joint of unspecified thumb, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.629S | Sprain of interphalangeal joint of unspecified thumb, sequela                | Diagnosis     | ICD-10-CM |
| S63.63   | Sprain of interphalangeal joint of other and unspecified finger(s)           | Diagnosis     | ICD-10-CM |
| S63.630  | Sprain of interphalangeal joint of right index finger                        | Diagnosis     | ICD-10-CM |
| S63.630A | Sprain of interphalangeal joint of right index finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.630D | Sprain of interphalangeal joint of right index finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.630S | Sprain of interphalangeal joint of right index finger, sequela               | Diagnosis     | ICD-10-CM |
| S63.631  | Sprain of interphalangeal joint of left index finger                         | Diagnosis     | ICD-10-CM |
| S63.631A | Sprain of interphalangeal joint of left index finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.631D | Sprain of interphalangeal joint of left index finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.631S | Sprain of interphalangeal joint of left index finger, sequela                | Diagnosis     | ICD-10-CM |
| S63.632  | Sprain of interphalangeal joint of right middle finger                       | Diagnosis     | ICD-10-CM |
| S63.632A | Sprain of interphalangeal joint of right middle finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.632D | Sprain of interphalangeal joint of right middle finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.632S | Sprain of interphalangeal joint of right middle finger, sequela              | Diagnosis     | ICD-10-CM |
| S63.633  | Sprain of interphalangeal joint of left middle finger                        | Diagnosis     | ICD-10-CM |
| S63.633A | Sprain of interphalangeal joint of left middle finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.633D | Sprain of interphalangeal joint of left middle finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.633S | Sprain of interphalangeal joint of left middle finger, sequela               | Diagnosis     | ICD-10-CM |
| S63.634  | Sprain of interphalangeal joint of right ring finger                         | Diagnosis     | ICD-10-CM |
| S63.634A | Sprain of interphalangeal joint of right ring finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.634D | Sprain of interphalangeal joint of right ring finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.634S | Sprain of interphalangeal joint of right ring finger, sequela                | Diagnosis     | ICD-10-CM |
| S63.635  | Sprain of interphalangeal joint of left ring finger                          | Diagnosis     | ICD-10-CM |
| S63.635A | Sprain of interphalangeal joint of left ring finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S63.635D | Sprain of interphalangeal joint of left ring finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S63.635S | Sprain of interphalangeal joint of left ring finger, sequela                 | Diagnosis     | ICD-10-CM |
| S63.636  | Sprain of interphalangeal joint of right little finger                       | Diagnosis     | ICD-10-CM |
| S63.636A | Sprain of interphalangeal joint of right little finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.636D | Sprain of interphalangeal joint of right little finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.636S | Sprain of interphalangeal joint of right little finger, sequela              | Diagnosis     | ICD-10-CM |
| S63.637  | Sprain of interphalangeal joint of left little finger                        | Diagnosis     | ICD-10-CM |
| S63.637A | Sprain of interphalangeal joint of left little finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.637D | Sprain of interphalangeal joint of left little finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.637S | Sprain of interphalangeal joint of left little finger, sequela               | Diagnosis     | ICD-10-CM |
| S63.638  | Sprain of interphalangeal joint of other finger                              | Diagnosis     | ICD-10-CM |
| S63.638A | Sprain of interphalangeal joint of other finger, initial encounter           | Diagnosis     | ICD-10-CM |
| S63.638D | Sprain of interphalangeal joint of other finger, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S63.638S | Sprain of interphalangeal joint of other finger, sequela                     | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S63.639  | Sprain of interphalangeal joint of unspecified finger                            | Diagnosis     | ICD-10-CM |
| S63.639A | Sprain of interphalangeal joint of unspecified finger, initial encounter         | Diagnosis     | ICD-10-CM |
| S63.639D | Sprain of interphalangeal joint of unspecified finger, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S63.639S | Sprain of interphalangeal joint of unspecified finger, sequela                   | Diagnosis     | ICD-10-CM |
| S63.64   | Sprain of metacarpophalangeal joint of thumb                                     | Diagnosis     | ICD-10-CM |
| S63.641  | Sprain of metacarpophalangeal joint of right thumb                               | Diagnosis     | ICD-10-CM |
| S63.641A | Sprain of metacarpophalangeal joint of right thumb, initial encounter            | Diagnosis     | ICD-10-CM |
| S63.641D | Sprain of metacarpophalangeal joint of right thumb, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S63.641S | Sprain of metacarpophalangeal joint of right thumb, sequela                      | Diagnosis     | ICD-10-CM |
| S63.642  | Sprain of metacarpophalangeal joint of left thumb                                | Diagnosis     | ICD-10-CM |
| S63.642A | Sprain of metacarpophalangeal joint of left thumb, initial encounter             | Diagnosis     | ICD-10-CM |
| S63.642D | Sprain of metacarpophalangeal joint of left thumb, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S63.642S | Sprain of metacarpophalangeal joint of left thumb, sequela                       | Diagnosis     | ICD-10-CM |
| S63.649  | Sprain of metacarpophalangeal joint of unspecified thumb                         | Diagnosis     | ICD-10-CM |
| S63.649A | Sprain of metacarpophalangeal joint of unspecified thumb, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.649D | Sprain of metacarpophalangeal joint of unspecified thumb, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.649S | Sprain of metacarpophalangeal joint of unspecified thumb, sequela                | Diagnosis     | ICD-10-CM |
| S63.65   | Sprain of metacarpophalangeal joint of other and unspecified finger(s)           | Diagnosis     | ICD-10-CM |
| S63.650  | Sprain of metacarpophalangeal joint of right index finger                        | Diagnosis     | ICD-10-CM |
| S63.650A | Sprain of metacarpophalangeal joint of right index finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.650D | Sprain of metacarpophalangeal joint of right index finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.650S | Sprain of metacarpophalangeal joint of right index finger, sequela               | Diagnosis     | ICD-10-CM |
| S63.651  | Sprain of metacarpophalangeal joint of left index finger                         | Diagnosis     | ICD-10-CM |
| S63.651A | Sprain of metacarpophalangeal joint of left index finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.651D | Sprain of metacarpophalangeal joint of left index finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.651S | Sprain of metacarpophalangeal joint of left index finger, sequela                | Diagnosis     | ICD-10-CM |
| S63.652  | Sprain of metacarpophalangeal joint of right middle finger                       | Diagnosis     | ICD-10-CM |
| S63.652A | Sprain of metacarpophalangeal joint of right middle finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.652D | Sprain of metacarpophalangeal joint of right middle finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.652S | Sprain of metacarpophalangeal joint of right middle finger, sequela              | Diagnosis     | ICD-10-CM |
| S63.653  | Sprain of metacarpophalangeal joint of left middle finger                        | Diagnosis     | ICD-10-CM |
| S63.653A | Sprain of metacarpophalangeal joint of left middle finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.653D | Sprain of metacarpophalangeal joint of left middle finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.653S | Sprain of metacarpophalangeal joint of left middle finger, sequela               | Diagnosis     | ICD-10-CM |
| S63.654  | Sprain of metacarpophalangeal joint of right ring finger                         | Diagnosis     | ICD-10-CM |
| S63.654A | Sprain of metacarpophalangeal joint of right ring finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S63.654D | Sprain of metacarpophalangeal joint of right ring finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S63.654S | Sprain of metacarpophalangeal joint of right ring finger, sequela                | Diagnosis     | ICD-10-CM |
| S63.655  | Sprain of metacarpophalangeal joint of left ring finger                          | Diagnosis     | ICD-10-CM |
| S63.655A | Sprain of metacarpophalangeal joint of left ring finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S63.655D | Sprain of metacarpophalangeal joint of left ring finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S63.655S | Sprain of metacarpophalangeal joint of left ring finger, sequela                 | Diagnosis     | ICD-10-CM |
| S63.656  | Sprain of metacarpophalangeal joint of right little finger                       | Diagnosis     | ICD-10-CM |
| S63.656A | Sprain of metacarpophalangeal joint of right little finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.656D | Sprain of metacarpophalangeal joint of right little finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.656S | Sprain of metacarpophalangeal joint of right little finger, sequela              | Diagnosis     | ICD-10-CM |
| S63.657  | Sprain of metacarpophalangeal joint of left little finger                        | Diagnosis     | ICD-10-CM |
| S63.657A | Sprain of metacarpophalangeal joint of left little finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S63.657D | Sprain of metacarpophalangeal joint of left little finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S63.657S | Sprain of metacarpophalangeal joint of left little finger, sequela               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S63.658  | Sprain of metacarpophalangeal joint of other finger                             | Diagnosis     | ICD-10-CM |
| S63.658A | Sprain of metacarpophalangeal joint of other finger, initial encounter          | Diagnosis     | ICD-10-CM |
| S63.658D | Sprain of metacarpophalangeal joint of other finger, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S63.658S | Sprain of metacarpophalangeal joint of other finger, sequela                    | Diagnosis     | ICD-10-CM |
| S63.659  | Sprain of metacarpophalangeal joint of unspecified finger                       | Diagnosis     | ICD-10-CM |
| S63.659A | Sprain of metacarpophalangeal joint of unspecified finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S63.659D | Sprain of metacarpophalangeal joint of unspecified finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S63.659S | Sprain of metacarpophalangeal joint of unspecified finger, sequela              | Diagnosis     | ICD-10-CM |
| S63.68   | Other sprain of thumb   | Diagnosis     | ICD-10-CM |
| S63.681  | Other sprain of right thumb   | Diagnosis     | ICD-10-CM |
| S63.681A | Other sprain of right thumb, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S63.681D | Other sprain of right thumb, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S63.681S | Other sprain of right thumb, sequela  | Diagnosis     | ICD-10-CM |
| S63.682  | Other sprain of left thumb  | Diagnosis     | ICD-10-CM |
| S63.682A | Other sprain of left thumb, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S63.682D | Other sprain of left thumb, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S63.682S | Other sprain of left thumb, sequela   | Diagnosis     | ICD-10-CM |
| S63.689  | Other sprain of unspecified thumb   | Diagnosis     | ICD-10-CM |
| S63.689A | Other sprain of unspecified thumb, initial encounter                            | Diagnosis     | ICD-10-CM |
| S63.689D | Other sprain of unspecified thumb, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S63.689S | Other sprain of unspecified thumb, sequela                                      | Diagnosis     | ICD-10-CM |
| S63.69   | Other sprain of other and unspecified finger(s)                                 | Diagnosis     | ICD-10-CM |
| S63.690  | Other sprain of right index finger  | Diagnosis     | ICD-10-CM |
| S63.690A | Other sprain of right index finger, initial encounter                           | Diagnosis     | ICD-10-CM |
| S63.690D | Other sprain of right index finger, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S63.690S | Other sprain of right index finger, sequela                                     | Diagnosis     | ICD-10-CM |
| S63.691  | Other sprain of left index finger   | Diagnosis     | ICD-10-CM |
| S63.691A | Other sprain of left index finger, initial encounter                            | Diagnosis     | ICD-10-CM |
| S63.691D | Other sprain of left index finger, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S63.691S | Other sprain of left index finger, sequela                                      | Diagnosis     | ICD-10-CM |
| S63.692  | Other sprain of right middle finger   | Diagnosis     | ICD-10-CM |
| S63.692A | Other sprain of right middle finger, initial encounter                          | Diagnosis     | ICD-10-CM |
| S63.692D | Other sprain of right middle finger, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S63.692S | Other sprain of right middle finger, sequela                                    | Diagnosis     | ICD-10-CM |
| S63.693  | Other sprain of left middle finger  | Diagnosis     | ICD-10-CM |
| S63.693A | Other sprain of left middle finger, initial encounter                           | Diagnosis     | ICD-10-CM |
| S63.693D | Other sprain of left middle finger, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S63.693S | Other sprain of left middle finger, sequela                                     | Diagnosis     | ICD-10-CM |
| S63.694  | Other sprain of right ring finger   | Diagnosis     | ICD-10-CM |
| S63.694A | Other sprain of right ring finger, initial encounter                            | Diagnosis     | ICD-10-CM |
| S63.694D | Other sprain of right ring finger, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S63.694S | Other sprain of right ring finger, sequela                                      | Diagnosis     | ICD-10-CM |
| S63.695  | Other sprain of left ring finger  | Diagnosis     | ICD-10-CM |
| S63.695A | Other sprain of left ring finger, initial encounter                             | Diagnosis     | ICD-10-CM |
| S63.695D | Other sprain of left ring finger, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S63.695S | Other sprain of left ring finger, sequela                                       | Diagnosis     | ICD-10-CM |
| S63.696  | Other sprain of right little finger   | Diagnosis     | ICD-10-CM |
| S63.696A | Other sprain of right little finger, initial encounter                          | Diagnosis     | ICD-10-CM |
| S63.696D | Other sprain of right little finger, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S63.696S | Other sprain of right little finger, sequela                                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S63.697  | Other sprain of left little finger   | Diagnosis     | ICD-10-CM |
| S63.697A | Other sprain of left little finger, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S63.697D | Other sprain of left little finger, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S63.697S | Other sprain of left little finger, sequela  | Diagnosis     | ICD-10-CM |
| S63.698  | Other sprain of other finger   | Diagnosis     | ICD-10-CM |
| S63.698A | Other sprain of other finger, initial encounter  | Diagnosis     | ICD-10-CM |
| S63.698D | Other sprain of other finger, subsequent encounter                                     | Diagnosis     | ICD-10-CM |
| S63.698S | Other sprain of other finger, sequela  | Diagnosis     | ICD-10-CM |
| S63.699  | Other sprain of unspecified finger   | Diagnosis     | ICD-10-CM |
| S63.699A | Other sprain of unspecified finger, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S63.699D | Other sprain of unspecified finger, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S63.699S | Other sprain of unspecified finger, sequela  | Diagnosis     | ICD-10-CM |
| S63.8    | Sprain of other part of wrist and hand   | Diagnosis     | ICD-10-CM |
| S63.8X   | Sprain of other part of wrist and hand   | Diagnosis     | ICD-10-CM |
| S63.8X1  | Sprain of other part of right wrist and hand   | Diagnosis     | ICD-10-CM |
| S63.8X1A | Sprain of other part of right wrist and hand, initial encounter                        | Diagnosis     | ICD-10-CM |
| S63.8X1D | Sprain of other part of right wrist and hand, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S63.8X1S | Sprain of other part of right wrist and hand, sequela                                  | Diagnosis     | ICD-10-CM |
| S63.8X2  | Sprain of other part of left wrist and hand  | Diagnosis     | ICD-10-CM |
| S63.8X2A | Sprain of other part of left wrist and hand, initial encounter                         | Diagnosis     | ICD-10-CM |
| S63.8X2D | Sprain of other part of left wrist and hand, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S63.8X2S | Sprain of other part of left wrist and hand, sequela                                   | Diagnosis     | ICD-10-CM |
| S63.8X9  | Sprain of other part of unspecified wrist and hand                                     | Diagnosis     | ICD-10-CM |
| S63.8X9A | Sprain of other part of unspecified wrist and hand, initial encounter                  | Diagnosis     | ICD-10-CM |
| S63.8X9D | Sprain of other part of unspecified wrist and hand, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S63.8X9S | Sprain of other part of unspecified wrist and hand, sequela                            | Diagnosis     | ICD-10-CM |
| S63.9    | Sprain of unspecified part of wrist and hand   | Diagnosis     | ICD-10-CM |
| S63.90   | Sprain of unspecified part of unspecified wrist and hand                               | Diagnosis     | ICD-10-CM |
| S63.90XA | Sprain of unspecified part of unspecified wrist and hand, initial encounter            | Diagnosis     | ICD-10-CM |
| S63.90XD | Sprain of unspecified part of unspecified wrist and hand, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S63.90XS | Sprain of unspecified part of unspecified wrist and hand, sequela                      | Diagnosis     | ICD-10-CM |
| S63.91   | Sprain of unspecified part of right wrist and hand                                     | Diagnosis     | ICD-10-CM |
| S63.91XA | Sprain of unspecified part of right wrist and hand, initial encounter                  | Diagnosis     | ICD-10-CM |
| S63.91XD | Sprain of unspecified part of right wrist and hand, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S63.91XS | Sprain of unspecified part of right wrist and hand, sequela                            | Diagnosis     | ICD-10-CM |
| S63.92   | Sprain of unspecified part of left wrist and hand                                      | Diagnosis     | ICD-10-CM |
| S63.92XA | Sprain of unspecified part of left wrist and hand, initial encounter                   | Diagnosis     | ICD-10-CM |
| S63.92XD | Sprain of unspecified part of left wrist and hand, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S63.92XS | Sprain of unspecified part of left wrist and hand, sequela                             | Diagnosis     | ICD-10-CM |
| S64      | Injury of nerves at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S64.0    | Injury of ulnar nerve at wrist and hand level  | Diagnosis     | ICD-10-CM |
| S64.00   | Injury of ulnar nerve at wrist and hand level of unspecified arm                       | Diagnosis     | ICD-10-CM |
| S64.00XA | Injury of ulnar nerve at wrist and hand level of unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S64.00XD | Injury of ulnar nerve at wrist and hand level of unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S64.00XS | Injury of ulnar nerve at wrist and hand level of unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S64.01   | Injury of ulnar nerve at wrist and hand level of right arm                             | Diagnosis     | ICD-10-CM |
| S64.01XA | Injury of ulnar nerve at wrist and hand level of right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S64.01XD | Injury of ulnar nerve at wrist and hand level of right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S64.01XS | Injury of ulnar nerve at wrist and hand level of right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S64.02   | Injury of ulnar nerve at wrist and hand level of left arm                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S64.02XA | Injury of ulnar nerve at wrist and hand level of left arm, initial encounter            | Diagnosis     | ICD-10-CM |
| S64.02XD | Injury of ulnar nerve at wrist and hand level of left arm, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S64.02XS | Injury of ulnar nerve at wrist and hand level of left arm, sequela                      | Diagnosis     | ICD-10-CM |
| S64.1    | Injury of median nerve at wrist and hand level  | Diagnosis     | ICD-10-CM |
| S64.10   | Injury of median nerve at wrist and hand level of unspecified arm                       | Diagnosis     | ICD-10-CM |
| S64.10XA | Injury of median nerve at wrist and hand level of unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S64.10XD | Injury of median nerve at wrist and hand level of unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S64.10XS | Injury of median nerve at wrist and hand level of unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S64.11   | Injury of median nerve at wrist and hand level of right arm                             | Diagnosis     | ICD-10-CM |
| S64.11XA | Injury of median nerve at wrist and hand level of right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S64.11XD | Injury of median nerve at wrist and hand level of right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S64.11XS | Injury of median nerve at wrist and hand level of right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S64.12   | Injury of median nerve at wrist and hand level of left arm                              | Diagnosis     | ICD-10-CM |
| S64.12XA | Injury of median nerve at wrist and hand level of left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S64.12XD | Injury of median nerve at wrist and hand level of left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S64.12XS | Injury of median nerve at wrist and hand level of left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S64.2    | Injury of radial nerve at wrist and hand level  | Diagnosis     | ICD-10-CM |
| S64.20   | Injury of radial nerve at wrist and hand level of unspecified arm                       | Diagnosis     | ICD-10-CM |
| S64.20XA | Injury of radial nerve at wrist and hand level of unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S64.20XD | Injury of radial nerve at wrist and hand level of unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S64.20XS | Injury of radial nerve at wrist and hand level of unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S64.21   | Injury of radial nerve at wrist and hand level of right arm                             | Diagnosis     | ICD-10-CM |
| S64.21XA | Injury of radial nerve at wrist and hand level of right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S64.21XD | Injury of radial nerve at wrist and hand level of right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S64.21XS | Injury of radial nerve at wrist and hand level of right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S64.22   | Injury of radial nerve at wrist and hand level of left arm                              | Diagnosis     | ICD-10-CM |
| S64.22XA | Injury of radial nerve at wrist and hand level of left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S64.22XD | Injury of radial nerve at wrist and hand level of left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S64.22XS | Injury of radial nerve at wrist and hand level of left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S64.3    | Injury of digital nerve of thumb  | Diagnosis     | ICD-10-CM |
| S64.30   | Injury of digital nerve of unspecified thumb  | Diagnosis     | ICD-10-CM |
| S64.30XA | Injury of digital nerve of unspecified thumb, initial encounter                         | Diagnosis     | ICD-10-CM |
| S64.30XD | Injury of digital nerve of unspecified thumb, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S64.30XS | Injury of digital nerve of unspecified thumb, sequela                                   | Diagnosis     | ICD-10-CM |
| S64.31   | Injury of digital nerve of right thumb  | Diagnosis     | ICD-10-CM |
| S64.31XA | Injury of digital nerve of right thumb, initial encounter                               | Diagnosis     | ICD-10-CM |
| S64.31XD | Injury of digital nerve of right thumb, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S64.31XS | Injury of digital nerve of right thumb, sequela   | Diagnosis     | ICD-10-CM |
| S64.32   | Injury of digital nerve of left thumb   | Diagnosis     | ICD-10-CM |
| S64.32XA | Injury of digital nerve of left thumb, initial encounter                                | Diagnosis     | ICD-10-CM |
| S64.32XD | Injury of digital nerve of left thumb, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S64.32XS | Injury of digital nerve of left thumb, sequela  | Diagnosis     | ICD-10-CM |
| S64.4    | Injury of digital nerve of other and unspecified finger                                 | Diagnosis     | ICD-10-CM |
| S64.40   | Injury of digital nerve of unspecified finger   | Diagnosis     | ICD-10-CM |
| S64.40XA | Injury of digital nerve of unspecified finger, initial encounter                        | Diagnosis     | ICD-10-CM |
| S64.40XD | Injury of digital nerve of unspecified finger, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S64.40XS | Injury of digital nerve of unspecified finger, sequela                                  | Diagnosis     | ICD-10-CM |
| S64.49   | Injury of digital nerve of other finger   | Diagnosis     | ICD-10-CM |
| S64.490  | Injury of digital nerve of right index finger   | Diagnosis     | ICD-10-CM |
| S64.490A | Injury of digital nerve of right index finger, initial encounter                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S64.490D | Injury of digital nerve of right index finger, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S64.490S | Injury of digital nerve of right index finger, sequela                                  | Diagnosis     | ICD-10-CM |
| S64.491  | Injury of digital nerve of left index finger  | Diagnosis     | ICD-10-CM |
| S64.491A | Injury of digital nerve of left index finger, initial encounter                         | Diagnosis     | ICD-10-CM |
| S64.491D | Injury of digital nerve of left index finger, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S64.491S | Injury of digital nerve of left index finger, sequela                                   | Diagnosis     | ICD-10-CM |
| S64.492  | Injury of digital nerve of right middle finger  | Diagnosis     | ICD-10-CM |
| S64.492A | Injury of digital nerve of right middle finger, initial encounter                       | Diagnosis     | ICD-10-CM |
| S64.492D | Injury of digital nerve of right middle finger, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S64.492S | Injury of digital nerve of right middle finger, sequela                                 | Diagnosis     | ICD-10-CM |
| S64.493  | Injury of digital nerve of left middle finger   | Diagnosis     | ICD-10-CM |
| S64.493A | Injury of digital nerve of left middle finger, initial encounter                        | Diagnosis     | ICD-10-CM |
| S64.493D | Injury of digital nerve of left middle finger, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S64.493S | Injury of digital nerve of left middle finger, sequela                                  | Diagnosis     | ICD-10-CM |
| S64.494  | Injury of digital nerve of right ring finger  | Diagnosis     | ICD-10-CM |
| S64.494A | Injury of digital nerve of right ring finger, initial encounter                         | Diagnosis     | ICD-10-CM |
| S64.494D | Injury of digital nerve of right ring finger, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S64.494S | Injury of digital nerve of right ring finger, sequela                                   | Diagnosis     | ICD-10-CM |
| S64.495  | Injury of digital nerve of left ring finger   | Diagnosis     | ICD-10-CM |
| S64.495A | Injury of digital nerve of left ring finger, initial encounter                          | Diagnosis     | ICD-10-CM |
| S64.495D | Injury of digital nerve of left ring finger, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S64.495S | Injury of digital nerve of left ring finger, sequela                                    | Diagnosis     | ICD-10-CM |
| S64.496  | Injury of digital nerve of right little finger  | Diagnosis     | ICD-10-CM |
| S64.496A | Injury of digital nerve of right little finger, initial encounter                       | Diagnosis     | ICD-10-CM |
| S64.496D | Injury of digital nerve of right little finger, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S64.496S | Injury of digital nerve of right little finger, sequela                                 | Diagnosis     | ICD-10-CM |
| S64.497  | Injury of digital nerve of left little finger   | Diagnosis     | ICD-10-CM |
| S64.497A | Injury of digital nerve of left little finger, initial encounter                        | Diagnosis     | ICD-10-CM |
| S64.497D | Injury of digital nerve of left little finger, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S64.497S | Injury of digital nerve of left little finger, sequela                                  | Diagnosis     | ICD-10-CM |
| S64.498  | Injury of digital nerve of other finger   | Diagnosis     | ICD-10-CM |
| S64.498A | Injury of digital nerve of other finger, initial encounter                              | Diagnosis     | ICD-10-CM |
| S64.498D | Injury of digital nerve of other finger, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S64.498S | Injury of digital nerve of other finger, sequela  | Diagnosis     | ICD-10-CM |
| S64.8    | Injury of other nerves at wrist and hand level  | Diagnosis     | ICD-10-CM |
| S64.8X   | Injury of other nerves at wrist and hand level  | Diagnosis     | ICD-10-CM |
| S64.8X1  | Injury of other nerves at wrist and hand level of right arm                             | Diagnosis     | ICD-10-CM |
| S64.8X1A | Injury of other nerves at wrist and hand level of right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S64.8X1D | Injury of other nerves at wrist and hand level of right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S64.8X1S | Injury of other nerves at wrist and hand level of right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S64.8X2  | Injury of other nerves at wrist and hand level of left arm                              | Diagnosis     | ICD-10-CM |
| S64.8X2A | Injury of other nerves at wrist and hand level of left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S64.8X2D | Injury of other nerves at wrist and hand level of left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S64.8X2S | Injury of other nerves at wrist and hand level of left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S64.8X9  | Injury of other nerves at wrist and hand level of unspecified arm                       | Diagnosis     | ICD-10-CM |
| S64.8X9A | Injury of other nerves at wrist and hand level of unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S64.8X9D | Injury of other nerves at wrist and hand level of unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S64.8X9S | Injury of other nerves at wrist and hand level of unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S64.9    | Injury of unspecified nerve at wrist and hand level                                     | Diagnosis     | ICD-10-CM |
| S64.90   | Injury of unspecified nerve at wrist and hand level of unspecified arm                  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S64.90XA | Injury of unspecified nerve at wrist and hand level of unspecified arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S64.90XD | Injury of unspecified nerve at wrist and hand level of unspecified arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S64.90XS | Injury of unspecified nerve at wrist and hand level of unspecified arm, sequela                     | Diagnosis     | ICD-10-CM |
| S64.91   | Injury of unspecified nerve at wrist and hand level of right arm                                    | Diagnosis     | ICD-10-CM |
| S64.91XA | Injury of unspecified nerve at wrist and hand level of right arm, initial encounter                 | Diagnosis     | ICD-10-CM |
| S64.91XD | Injury of unspecified nerve at wrist and hand level of right arm, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S64.91XS | Injury of unspecified nerve at wrist and hand level of right arm, sequela                           | Diagnosis     | ICD-10-CM |
| S64.92   | Injury of unspecified nerve at wrist and hand level of left arm                                     | Diagnosis     | ICD-10-CM |
| S64.92XA | Injury of unspecified nerve at wrist and hand level of left arm, initial encounter                  | Diagnosis     | ICD-10-CM |
| S64.92XD | Injury of unspecified nerve at wrist and hand level of left arm, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S64.92XS | Injury of unspecified nerve at wrist and hand level of left arm, sequela                            | Diagnosis     | ICD-10-CM |
| S65      | Injury of blood vessels at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S65.0    | Injury of ulnar artery at wrist and hand level  | Diagnosis     | ICD-10-CM |
| S65.00   | Unspecified injury of ulnar artery at wrist and hand level  | Diagnosis     | ICD-10-CM |
| S65.001  | Unspecified injury of ulnar artery at wrist and hand level of right arm                             | Diagnosis     | ICD-10-CM |
| S65.001A | Unspecified injury of ulnar artery at wrist and hand level of right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S65.001D | Unspecified injury of ulnar artery at wrist and hand level of right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S65.001S | Unspecified injury of ulnar artery at wrist and hand level of right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S65.002  | Unspecified injury of ulnar artery at wrist and hand level of left arm                              | Diagnosis     | ICD-10-CM |
| S65.002A | Unspecified injury of ulnar artery at wrist and hand level of left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S65.002D | Unspecified injury of ulnar artery at wrist and hand level of left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S65.002S | Unspecified injury of ulnar artery at wrist and hand level of left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S65.009  | Unspecified injury of ulnar artery at wrist and hand level of unspecified arm                       | Diagnosis     | ICD-10-CM |
| S65.009A | Unspecified injury of ulnar artery at wrist and hand level of unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S65.009D | Unspecified injury of ulnar artery at wrist and hand level of unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S65.009S | Unspecified injury of ulnar artery at wrist and hand level of unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S65.01   | Laceration of ulnar artery at wrist and hand level  | Diagnosis     | ICD-10-CM |
| S65.011  | Laceration of ulnar artery at wrist and hand level of right arm                                     | Diagnosis     | ICD-10-CM |
| S65.011A | Laceration of ulnar artery at wrist and hand level of right arm, initial encounter                  | Diagnosis     | ICD-10-CM |
| S65.011D | Laceration of ulnar artery at wrist and hand level of right arm, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S65.011S | Laceration of ulnar artery at wrist and hand level of right arm, sequela                            | Diagnosis     | ICD-10-CM |
| S65.012  | Laceration of ulnar artery at wrist and hand level of left arm                                      | Diagnosis     | ICD-10-CM |
| S65.012A | Laceration of ulnar artery at wrist and hand level of left arm, initial encounter                   | Diagnosis     | ICD-10-CM |
| S65.012D | Laceration of ulnar artery at wrist and hand level of left arm, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S65.012S | Laceration of ulnar artery at wrist and hand level of left arm, sequela                             | Diagnosis     | ICD-10-CM |
| S65.019  | Laceration of ulnar artery at wrist and hand level of unspecified arm                               | Diagnosis     | ICD-10-CM |
| S65.019A | Laceration of ulnar artery at wrist and hand level of unspecified arm, initial encounter            | Diagnosis     | ICD-10-CM |
| S65.019D | Laceration of ulnar artery at wrist and hand level of unspecified arm, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S65.019S | Laceration of ulnar artery at wrist and hand level of unspecified arm, sequela                      | Diagnosis     | ICD-10-CM |
| S65.09   | Other specified injury of ulnar artery at wrist and hand level                                      | Diagnosis     | ICD-10-CM |
| S65.091  | Other specified injury of ulnar artery at wrist and hand level of right arm                         | Diagnosis     | ICD-10-CM |
| S65.091A | Other specified injury of ulnar artery at wrist and hand level of right arm, initial encounter      | Diagnosis     | ICD-10-CM |
| S65.091D | Other specified injury of ulnar artery at wrist and hand level of right arm, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S65.091S | Other specified injury of ulnar artery at wrist and hand level of right arm, sequela                | Diagnosis     | ICD-10-CM |
| S65.092  | Other specified injury of ulnar artery at wrist and hand level of left arm                          | Diagnosis     | ICD-10-CM |
| S65.092A | Other specified injury of ulnar artery at wrist and hand level of left arm, initial encounter       | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S65.092D | Other specified injury of ulnar artery at wrist and hand level of left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S65.092S | Other specified injury of ulnar artery at wrist and hand level of left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S65.099  | Other specified injury of ulnar artery at wrist and hand level of unspecified arm                       | Diagnosis     | ICD-10-CM |
| S65.099A | Other specified injury of ulnar artery at wrist and hand level of unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S65.099D | Other specified injury of ulnar artery at wrist and hand level of unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S65.099S | Other specified injury of ulnar artery at wrist and hand level of unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S65.1    | Injury of radial artery at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S65.10   | Unspecified injury of radial artery at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S65.101  | Unspecified injury of radial artery at wrist and hand level of right arm                                | Diagnosis     | ICD-10-CM |
| S65.101A | Unspecified injury of radial artery at wrist and hand level of right arm, initial encounter             | Diagnosis     | ICD-10-CM |
| S65.101D | Unspecified injury of radial artery at wrist and hand level of right arm, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S65.101S | Unspecified injury of radial artery at wrist and hand level of right arm, sequela                       | Diagnosis     | ICD-10-CM |
| S65.102  | Unspecified injury of radial artery at wrist and hand level of left arm                                 | Diagnosis     | ICD-10-CM |
| S65.102A | Unspecified injury of radial artery at wrist and hand level of left arm, initial encounter              | Diagnosis     | ICD-10-CM |
| S65.102D | Unspecified injury of radial artery at wrist and hand level of left arm, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S65.102S | Unspecified injury of radial artery at wrist and hand level of left arm, sequela                        | Diagnosis     | ICD-10-CM |
| S65.109  | Unspecified injury of radial artery at wrist and hand level of unspecified arm                          | Diagnosis     | ICD-10-CM |
| S65.109A | Unspecified injury of radial artery at wrist and hand level of unspecified arm, initial encounter       | Diagnosis     | ICD-10-CM |
| S65.109D | Unspecified injury of radial artery at wrist and hand level of unspecified arm, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S65.109S | Unspecified injury of radial artery at wrist and hand level of unspecified arm, sequela                 | Diagnosis     | ICD-10-CM |
| S65.11   | Laceration of radial artery at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S65.111  | Laceration of radial artery at wrist and hand level of right arm  | Diagnosis     | ICD-10-CM |
| S65.111A | Laceration of radial artery at wrist and hand level of right arm, initial encounter                     | Diagnosis     | ICD-10-CM |
| S65.111D | Laceration of radial artery at wrist and hand level of right arm, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S65.111S | Laceration of radial artery at wrist and hand level of right arm, sequela                               | Diagnosis     | ICD-10-CM |
| S65.112  | Laceration of radial artery at wrist and hand level of left arm   | Diagnosis     | ICD-10-CM |
| S65.112A | Laceration of radial artery at wrist and hand level of left arm, initial encounter                      | Diagnosis     | ICD-10-CM |
| S65.112D | Laceration of radial artery at wrist and hand level of left arm, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S65.112S | Laceration of radial artery at wrist and hand level of left arm, sequela                                | Diagnosis     | ICD-10-CM |
| S65.119  | Laceration of radial artery at wrist and hand level of unspecified arm                                  | Diagnosis     | ICD-10-CM |
| S65.119A | Laceration of radial artery at wrist and hand level of unspecified arm, initial encounter               | Diagnosis     | ICD-10-CM |
| S65.119D | Laceration of radial artery at wrist and hand level of unspecified arm, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S65.119S | Laceration of radial artery at wrist and hand level of unspecified arm, sequela                         | Diagnosis     | ICD-10-CM |
| S65.19   | Other specified injury of radial artery at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S65.191  | Other specified injury of radial artery at wrist and hand level of right arm                            | Diagnosis     | ICD-10-CM |
| S65.191A | Other specified injury of radial artery at wrist and hand level of right arm, initial encounter         | Diagnosis     | ICD-10-CM |
| S65.191D | Other specified injury of radial artery at wrist and hand level of right arm, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S65.191S | Other specified injury of radial artery at wrist and hand level of right arm, sequela                   | Diagnosis     | ICD-10-CM |
| S65.192  | Other specified injury of radial artery at wrist and hand level of left arm                             | Diagnosis     | ICD-10-CM |
| S65.192A | Other specified injury of radial artery at wrist and hand level of left arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S65.192D | Other specified injury of radial artery at wrist and hand level of left arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S65.192S | Other specified injury of radial artery at wrist and hand level of left arm, sequela                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S65.199  | Other specified injury of radial artery at wrist and hand level of unspecified arm                       | Diagnosis     | ICD-10-CM |
| S65.199A | Other specified injury of radial artery at wrist and hand level of unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S65.199D | Other specified injury of radial artery at wrist and hand level of unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S65.199S | Other specified injury of radial artery at wrist and hand level of unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S65.2    | Injury of superficial palmar arch  | Diagnosis     | ICD-10-CM |
| S65.20   | Unspecified injury of superficial palmar arch  | Diagnosis     | ICD-10-CM |
| S65.201  | Unspecified injury of superficial palmar arch of right hand  | Diagnosis     | ICD-10-CM |
| S65.201A | Unspecified injury of superficial palmar arch of right hand, initial encounter                           | Diagnosis     | ICD-10-CM |
| S65.201D | Unspecified injury of superficial palmar arch of right hand, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S65.201S | Unspecified injury of superficial palmar arch of right hand, sequela                                     | Diagnosis     | ICD-10-CM |
| S65.202  | Unspecified injury of superficial palmar arch of left hand   | Diagnosis     | ICD-10-CM |
| S65.202A | Unspecified injury of superficial palmar arch of left hand, initial encounter                            | Diagnosis     | ICD-10-CM |
| S65.202D | Unspecified injury of superficial palmar arch of left hand, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S65.202S | Unspecified injury of superficial palmar arch of left hand, sequela                                      | Diagnosis     | ICD-10-CM |
| S65.209  | Unspecified injury of superficial palmar arch of unspecified hand  | Diagnosis     | ICD-10-CM |
| S65.209A | Unspecified injury of superficial palmar arch of unspecified hand, initial encounter                     | Diagnosis     | ICD-10-CM |
| S65.209D | Unspecified injury of superficial palmar arch of unspecified hand, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S65.209S | Unspecified injury of superficial palmar arch of unspecified hand, sequela                               | Diagnosis     | ICD-10-CM |
| S65.21   | Laceration of superficial palmar arch  | Diagnosis     | ICD-10-CM |
| S65.211  | Laceration of superficial palmar arch of right hand  | Diagnosis     | ICD-10-CM |
| S65.211A | Laceration of superficial palmar arch of right hand, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S65.211D | Laceration of superficial palmar arch of right hand, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S65.211S | Laceration of superficial palmar arch of right hand, sequela   | Diagnosis     | ICD-10-CM |
| S65.212  | Laceration of superficial palmar arch of left hand   | Diagnosis     | ICD-10-CM |
| S65.212A | Laceration of superficial palmar arch of left hand, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S65.212D | Laceration of superficial palmar arch of left hand, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S65.212S | Laceration of superficial palmar arch of left hand, sequela  | Diagnosis     | ICD-10-CM |
| S65.219  | Laceration of superficial palmar arch of unspecified hand  | Diagnosis     | ICD-10-CM |
| S65.219A | Laceration of superficial palmar arch of unspecified hand, initial encounter                             | Diagnosis     | ICD-10-CM |
| S65.219D | Laceration of superficial palmar arch of unspecified hand, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S65.219S | Laceration of superficial palmar arch of unspecified hand, sequela                                       | Diagnosis     | ICD-10-CM |
| S65.29   | Other specified injury of superficial palmar arch  | Diagnosis     | ICD-10-CM |
| S65.291  | Other specified injury of superficial palmar arch of right hand  | Diagnosis     | ICD-10-CM |
| S65.291A | Other specified injury of superficial palmar arch of right hand, initial encounter                       | Diagnosis     | ICD-10-CM |
| S65.291D | Other specified injury of superficial palmar arch of right hand, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S65.291S | Other specified injury of superficial palmar arch of right hand, sequela                                 | Diagnosis     | ICD-10-CM |
| S65.292  | Other specified injury of superficial palmar arch of left hand   | Diagnosis     | ICD-10-CM |
| S65.292A | Other specified injury of superficial palmar arch of left hand, initial encounter                        | Diagnosis     | ICD-10-CM |
| S65.292D | Other specified injury of superficial palmar arch of left hand, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S65.292S | Other specified injury of superficial palmar arch of left hand, sequela                                  | Diagnosis     | ICD-10-CM |
| S65.299  | Other specified injury of superficial palmar arch of unspecified hand                                    | Diagnosis     | ICD-10-CM |
| S65.299A | Other specified injury of superficial palmar arch of unspecified hand, initial encounter                 | Diagnosis     | ICD-10-CM |
| S65.299D | Other specified injury of superficial palmar arch of unspecified hand, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S65.299S | Other specified injury of superficial palmar arch of unspecified hand, sequela                           | Diagnosis     | ICD-10-CM |
| S65.3    | Injury of deep palmar arch   | Diagnosis     | ICD-10-CM |
| S65.30   | Unspecified injury of deep palmar arch   | Diagnosis     | ICD-10-CM |
| S65.301  | Unspecified injury of deep palmar arch of right hand   | Diagnosis     | ICD-10-CM |
| S65.301A | Unspecified injury of deep palmar arch of right hand, initial encounter                                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S65.301D | Unspecified injury of deep palmar arch of right hand, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S65.301S | Unspecified injury of deep palmar arch of right hand, sequela                        | Diagnosis     | ICD-10-CM |
| S65.302  | Unspecified injury of deep palmar arch of left hand                                  | Diagnosis     | ICD-10-CM |
| S65.302A | Unspecified injury of deep palmar arch of left hand, initial encounter               | Diagnosis     | ICD-10-CM |
| S65.302D | Unspecified injury of deep palmar arch of left hand, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S65.302S | Unspecified injury of deep palmar arch of left hand, sequela                         | Diagnosis     | ICD-10-CM |
| S65.309  | Unspecified injury of deep palmar arch of unspecified hand                           | Diagnosis     | ICD-10-CM |
| S65.309A | Unspecified injury of deep palmar arch of unspecified hand, initial encounter        | Diagnosis     | ICD-10-CM |
| S65.309D | Unspecified injury of deep palmar arch of unspecified hand, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S65.309S | Unspecified injury of deep palmar arch of unspecified hand, sequela                  | Diagnosis     | ICD-10-CM |
| S65.31   | Laceration of deep palmar arch   | Diagnosis     | ICD-10-CM |
| S65.311  | Laceration of deep palmar arch of right hand   | Diagnosis     | ICD-10-CM |
| S65.311A | Laceration of deep palmar arch of right hand, initial encounter                      | Diagnosis     | ICD-10-CM |
| S65.311D | Laceration of deep palmar arch of right hand, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S65.311S | Laceration of deep palmar arch of right hand, sequela                                | Diagnosis     | ICD-10-CM |
| S65.312  | Laceration of deep palmar arch of left hand  | Diagnosis     | ICD-10-CM |
| S65.312A | Laceration of deep palmar arch of left hand, initial encounter                       | Diagnosis     | ICD-10-CM |
| S65.312D | Laceration of deep palmar arch of left hand, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S65.312S | Laceration of deep palmar arch of left hand, sequela                                 | Diagnosis     | ICD-10-CM |
| S65.319  | Laceration of deep palmar arch of unspecified hand                                   | Diagnosis     | ICD-10-CM |
| S65.319A | Laceration of deep palmar arch of unspecified hand, initial encounter                | Diagnosis     | ICD-10-CM |
| S65.319D | Laceration of deep palmar arch of unspecified hand, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S65.319S | Laceration of deep palmar arch of unspecified hand, sequela                          | Diagnosis     | ICD-10-CM |
| S65.39   | Other specified injury of deep palmar arch   | Diagnosis     | ICD-10-CM |
| S65.391  | Other specified injury of deep palmar arch of right hand                             | Diagnosis     | ICD-10-CM |
| S65.391A | Other specified injury of deep palmar arch of right hand, initial encounter          | Diagnosis     | ICD-10-CM |
| S65.391D | Other specified injury of deep palmar arch of right hand, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S65.391S | Other specified injury of deep palmar arch of right hand, sequela                    | Diagnosis     | ICD-10-CM |
| S65.392  | Other specified injury of deep palmar arch of left hand                              | Diagnosis     | ICD-10-CM |
| S65.392A | Other specified injury of deep palmar arch of left hand, initial encounter           | Diagnosis     | ICD-10-CM |
| S65.392D | Other specified injury of deep palmar arch of left hand, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S65.392S | Other specified injury of deep palmar arch of left hand, sequela                     | Diagnosis     | ICD-10-CM |
| S65.399  | Other specified injury of deep palmar arch of unspecified hand                       | Diagnosis     | ICD-10-CM |
| S65.399A | Other specified injury of deep palmar arch of unspecified hand, initial encounter    | Diagnosis     | ICD-10-CM |
| S65.399D | Other specified injury of deep palmar arch of unspecified hand, subsequent encounter | Diagnosis     | ICD-10-CM |
| S65.399S | Other specified injury of deep palmar arch of unspecified hand, sequela              | Diagnosis     | ICD-10-CM |
| S65.4    | Injury of blood vessel of thumb  | Diagnosis     | ICD-10-CM |
| S65.40   | Unspecified injury of blood vessel of thumb  | Diagnosis     | ICD-10-CM |
| S65.401  | Unspecified injury of blood vessel of right thumb                                    | Diagnosis     | ICD-10-CM |
| S65.401A | Unspecified injury of blood vessel of right thumb, initial encounter                 | Diagnosis     | ICD-10-CM |
| S65.401D | Unspecified injury of blood vessel of right thumb, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S65.401S | Unspecified injury of blood vessel of right thumb, sequela                           | Diagnosis     | ICD-10-CM |
| S65.402  | Unspecified injury of blood vessel of left thumb                                     | Diagnosis     | ICD-10-CM |
| S65.402A | Unspecified injury of blood vessel of left thumb, initial encounter                  | Diagnosis     | ICD-10-CM |
| S65.402D | Unspecified injury of blood vessel of left thumb, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S65.402S | Unspecified injury of blood vessel of left thumb, sequela                            | Diagnosis     | ICD-10-CM |
| S65.409  | Unspecified injury of blood vessel of unspecified thumb                              | Diagnosis     | ICD-10-CM |
| S65.409A | Unspecified injury of blood vessel of unspecified thumb, initial encounter           | Diagnosis     | ICD-10-CM |
| S65.409D | Unspecified injury of blood vessel of unspecified thumb, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S65.409S | Unspecified injury of blood vessel of unspecified thumb, sequela                     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S65.41   | Laceration of blood vessel of thumb   | Diagnosis     | ICD-10-CM |
| S65.411  | Laceration of blood vessel of right thumb   | Diagnosis     | ICD-10-CM |
| S65.411A | Laceration of blood vessel of right thumb, initial encounter                      | Diagnosis     | ICD-10-CM |
| S65.411D | Laceration of blood vessel of right thumb, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S65.411S | Laceration of blood vessel of right thumb, sequela                                | Diagnosis     | ICD-10-CM |
| S65.412  | Laceration of blood vessel of left thumb  | Diagnosis     | ICD-10-CM |
| S65.412A | Laceration of blood vessel of left thumb, initial encounter                       | Diagnosis     | ICD-10-CM |
| S65.412D | Laceration of blood vessel of left thumb, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S65.412S | Laceration of blood vessel of left thumb, sequela                                 | Diagnosis     | ICD-10-CM |
| S65.419  | Laceration of blood vessel of unspecified thumb                                   | Diagnosis     | ICD-10-CM |
| S65.419A | Laceration of blood vessel of unspecified thumb, initial encounter                | Diagnosis     | ICD-10-CM |
| S65.419D | Laceration of blood vessel of unspecified thumb, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S65.419S | Laceration of blood vessel of unspecified thumb, sequela                          | Diagnosis     | ICD-10-CM |
| S65.49   | Other specified injury of blood vessel of thumb                                   | Diagnosis     | ICD-10-CM |
| S65.491  | Other specified injury of blood vessel of right thumb                             | Diagnosis     | ICD-10-CM |
| S65.491A | Other specified injury of blood vessel of right thumb, initial encounter          | Diagnosis     | ICD-10-CM |
| S65.491D | Other specified injury of blood vessel of right thumb, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S65.491S | Other specified injury of blood vessel of right thumb, sequela                    | Diagnosis     | ICD-10-CM |
| S65.492  | Other specified injury of blood vessel of left thumb                              | Diagnosis     | ICD-10-CM |
| S65.492A | Other specified injury of blood vessel of left thumb, initial encounter           | Diagnosis     | ICD-10-CM |
| S65.492D | Other specified injury of blood vessel of left thumb, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S65.492S | Other specified injury of blood vessel of left thumb, sequela                     | Diagnosis     | ICD-10-CM |
| S65.499  | Other specified injury of blood vessel of unspecified thumb                       | Diagnosis     | ICD-10-CM |
| S65.499A | Other specified injury of blood vessel of unspecified thumb, initial encounter    | Diagnosis     | ICD-10-CM |
| S65.499D | Other specified injury of blood vessel of unspecified thumb, subsequent encounter | Diagnosis     | ICD-10-CM |
| S65.499S | Other specified injury of blood vessel of unspecified thumb, sequela              | Diagnosis     | ICD-10-CM |
| S65.5    | Injury of blood vessel of other and unspecified finger                            | Diagnosis     | ICD-10-CM |
| S65.50   | Unspecified injury of blood vessel of other and unspecified finger                | Diagnosis     | ICD-10-CM |
| S65.500  | Unspecified injury of blood vessel of right index finger                          | Diagnosis     | ICD-10-CM |
| S65.500A | Unspecified injury of blood vessel of right index finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S65.500D | Unspecified injury of blood vessel of right index finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S65.500S | Unspecified injury of blood vessel of right index finger, sequela                 | Diagnosis     | ICD-10-CM |
| S65.501  | Unspecified injury of blood vessel of left index finger                           | Diagnosis     | ICD-10-CM |
| S65.501A | Unspecified injury of blood vessel of left index finger, initial encounter        | Diagnosis     | ICD-10-CM |
| S65.501D | Unspecified injury of blood vessel of left index finger, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S65.501S | Unspecified injury of blood vessel of left index finger, sequela                  | Diagnosis     | ICD-10-CM |
| S65.502  | Unspecified injury of blood vessel of right middle finger                         | Diagnosis     | ICD-10-CM |
| S65.502A | Unspecified injury of blood vessel of right middle finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S65.502D | Unspecified injury of blood vessel of right middle finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S65.502S | Unspecified injury of blood vessel of right middle finger, sequela                | Diagnosis     | ICD-10-CM |
| S65.503  | Unspecified injury of blood vessel of left middle finger                          | Diagnosis     | ICD-10-CM |
| S65.503A | Unspecified injury of blood vessel of left middle finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S65.503D | Unspecified injury of blood vessel of left middle finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S65.503S | Unspecified injury of blood vessel of left middle finger, sequela                 | Diagnosis     | ICD-10-CM |
| S65.504  | Unspecified injury of blood vessel of right ring finger                           | Diagnosis     | ICD-10-CM |
| S65.504A | Unspecified injury of blood vessel of right ring finger, initial encounter        | Diagnosis     | ICD-10-CM |
| S65.504D | Unspecified injury of blood vessel of right ring finger, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S65.504S | Unspecified injury of blood vessel of right ring finger, sequela                  | Diagnosis     | ICD-10-CM |
| S65.505  | Unspecified injury of blood vessel of left ring finger                            | Diagnosis     | ICD-10-CM |
| S65.505A | Unspecified injury of blood vessel of left ring finger, initial encounter         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S65.505D | Unspecified injury of blood vessel of left ring finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S65.505S | Unspecified injury of blood vessel of left ring finger, sequela                 | Diagnosis     | ICD-10-CM |
| S65.506  | Unspecified injury of blood vessel of right little finger                       | Diagnosis     | ICD-10-CM |
| S65.506A | Unspecified injury of blood vessel of right little finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S65.506D | Unspecified injury of blood vessel of right little finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S65.506S | Unspecified injury of blood vessel of right little finger, sequela              | Diagnosis     | ICD-10-CM |
| S65.507  | Unspecified injury of blood vessel of left little finger                        | Diagnosis     | ICD-10-CM |
| S65.507A | Unspecified injury of blood vessel of left little finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S65.507D | Unspecified injury of blood vessel of left little finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S65.507S | Unspecified injury of blood vessel of left little finger, sequela               | Diagnosis     | ICD-10-CM |
| S65.508  | Unspecified injury of blood vessel of other finger                              | Diagnosis     | ICD-10-CM |
| S65.508A | Unspecified injury of blood vessel of other finger, initial encounter           | Diagnosis     | ICD-10-CM |
| S65.508D | Unspecified injury of blood vessel of other finger, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S65.508S | Unspecified injury of blood vessel of other finger, sequela                     | Diagnosis     | ICD-10-CM |
| S65.509  | Unspecified injury of blood vessel of unspecified finger                        | Diagnosis     | ICD-10-CM |
| S65.509A | Unspecified injury of blood vessel of unspecified finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S65.509D | Unspecified injury of blood vessel of unspecified finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S65.509S | Unspecified injury of blood vessel of unspecified finger, sequela               | Diagnosis     | ICD-10-CM |
| S65.51   | Laceration of blood vessel of other and unspecified finger                      | Diagnosis     | ICD-10-CM |
| S65.510  | Laceration of blood vessel of right index finger                                | Diagnosis     | ICD-10-CM |
| S65.510A | Laceration of blood vessel of right index finger, initial encounter             | Diagnosis     | ICD-10-CM |
| S65.510D | Laceration of blood vessel of right index finger, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S65.510S | Laceration of blood vessel of right index finger, sequela                       | Diagnosis     | ICD-10-CM |
| S65.511  | Laceration of blood vessel of left index finger                                 | Diagnosis     | ICD-10-CM |
| S65.511A | Laceration of blood vessel of left index finger, initial encounter              | Diagnosis     | ICD-10-CM |
| S65.511D | Laceration of blood vessel of left index finger, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S65.511S | Laceration of blood vessel of left index finger, sequela                        | Diagnosis     | ICD-10-CM |
| S65.512  | Laceration of blood vessel of right middle finger                               | Diagnosis     | ICD-10-CM |
| S65.512A | Laceration of blood vessel of right middle finger, initial encounter            | Diagnosis     | ICD-10-CM |
| S65.512D | Laceration of blood vessel of right middle finger, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S65.512S | Laceration of blood vessel of right middle finger, sequela                      | Diagnosis     | ICD-10-CM |
| S65.513  | Laceration of blood vessel of left middle finger                                | Diagnosis     | ICD-10-CM |
| S65.513A | Laceration of blood vessel of left middle finger, initial encounter             | Diagnosis     | ICD-10-CM |
| S65.513D | Laceration of blood vessel of left middle finger, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S65.513S | Laceration of blood vessel of left middle finger, sequela                       | Diagnosis     | ICD-10-CM |
| S65.514  | Laceration of blood vessel of right ring finger                                 | Diagnosis     | ICD-10-CM |
| S65.514A | Laceration of blood vessel of right ring finger, initial encounter              | Diagnosis     | ICD-10-CM |
| S65.514D | Laceration of blood vessel of right ring finger, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S65.514S | Laceration of blood vessel of right ring finger, sequela                        | Diagnosis     | ICD-10-CM |
| S65.515  | Laceration of blood vessel of left ring finger                                  | Diagnosis     | ICD-10-CM |
| S65.515A | Laceration of blood vessel of left ring finger, initial encounter               | Diagnosis     | ICD-10-CM |
| S65.515D | Laceration of blood vessel of left ring finger, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S65.515S | Laceration of blood vessel of left ring finger, sequela                         | Diagnosis     | ICD-10-CM |
| S65.516  | Laceration of blood vessel of right little finger                               | Diagnosis     | ICD-10-CM |
| S65.516A | Laceration of blood vessel of right little finger, initial encounter            | Diagnosis     | ICD-10-CM |
| S65.516D | Laceration of blood vessel of right little finger, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S65.516S | Laceration of blood vessel of right little finger, sequela                      | Diagnosis     | ICD-10-CM |
| S65.517  | Laceration of blood vessel of left little finger                                | Diagnosis     | ICD-10-CM |
| S65.517A | Laceration of blood vessel of left little finger, initial encounter             | Diagnosis     | ICD-10-CM |
| S65.517D | Laceration of blood vessel of left little finger, subsequent encounter          | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S65.517S | Laceration of blood vessel of left little finger, sequela                           | Diagnosis     | ICD-10-CM |
| S65.518  | Laceration of blood vessel of other finger  | Diagnosis     | ICD-10-CM |
| S65.518A | Laceration of blood vessel of other finger, initial encounter                       | Diagnosis     | ICD-10-CM |
| S65.518D | Laceration of blood vessel of other finger, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S65.518S | Laceration of blood vessel of other finger, sequela                                 | Diagnosis     | ICD-10-CM |
| S65.519  | Laceration of blood vessel of unspecified finger                                    | Diagnosis     | ICD-10-CM |
| S65.519A | Laceration of blood vessel of unspecified finger, initial encounter                 | Diagnosis     | ICD-10-CM |
| S65.519D | Laceration of blood vessel of unspecified finger, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S65.519S | Laceration of blood vessel of unspecified finger, sequela                           | Diagnosis     | ICD-10-CM |
| S65.59   | Other specified injury of blood vessel of other and unspecified finger              | Diagnosis     | ICD-10-CM |
| S65.590  | Other specified injury of blood vessel of right index finger                        | Diagnosis     | ICD-10-CM |
| S65.590A | Other specified injury of blood vessel of right index finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S65.590D | Other specified injury of blood vessel of right index finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S65.590S | Other specified injury of blood vessel of right index finger, sequela               | Diagnosis     | ICD-10-CM |
| S65.591  | Other specified injury of blood vessel of left index finger                         | Diagnosis     | ICD-10-CM |
| S65.591A | Other specified injury of blood vessel of left index finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S65.591D | Other specified injury of blood vessel of left index finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S65.591S | Other specified injury of blood vessel of left index finger, sequela                | Diagnosis     | ICD-10-CM |
| S65.592  | Other specified injury of blood vessel of right middle finger                       | Diagnosis     | ICD-10-CM |
| S65.592A | Other specified injury of blood vessel of right middle finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S65.592D | Other specified injury of blood vessel of right middle finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S65.592S | Other specified injury of blood vessel of right middle finger, sequela              | Diagnosis     | ICD-10-CM |
| S65.593  | Other specified injury of blood vessel of left middle finger                        | Diagnosis     | ICD-10-CM |
| S65.593A | Other specified injury of blood vessel of left middle finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S65.593D | Other specified injury of blood vessel of left middle finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S65.593S | Other specified injury of blood vessel of left middle finger, sequela               | Diagnosis     | ICD-10-CM |
| S65.594  | Other specified injury of blood vessel of right ring finger                         | Diagnosis     | ICD-10-CM |
| S65.594A | Other specified injury of blood vessel of right ring finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S65.594D | Other specified injury of blood vessel of right ring finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S65.594S | Other specified injury of blood vessel of right ring finger, sequela                | Diagnosis     | ICD-10-CM |
| S65.595  | Other specified injury of blood vessel of left ring finger                          | Diagnosis     | ICD-10-CM |
| S65.595A | Other specified injury of blood vessel of left ring finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S65.595D | Other specified injury of blood vessel of left ring finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S65.595S | Other specified injury of blood vessel of left ring finger, sequela                 | Diagnosis     | ICD-10-CM |
| S65.596  | Other specified injury of blood vessel of right little finger                       | Diagnosis     | ICD-10-CM |
| S65.596A | Other specified injury of blood vessel of right little finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S65.596D | Other specified injury of blood vessel of right little finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S65.596S | Other specified injury of blood vessel of right little finger, sequela              | Diagnosis     | ICD-10-CM |
| S65.597  | Other specified injury of blood vessel of left little finger                        | Diagnosis     | ICD-10-CM |
| S65.597A | Other specified injury of blood vessel of left little finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S65.597D | Other specified injury of blood vessel of left little finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S65.597S | Other specified injury of blood vessel of left little finger, sequela               | Diagnosis     | ICD-10-CM |
| S65.598  | Other specified injury of blood vessel of other finger                              | Diagnosis     | ICD-10-CM |
| S65.598A | Other specified injury of blood vessel of other finger, initial encounter           | Diagnosis     | ICD-10-CM |
| S65.598D | Other specified injury of blood vessel of other finger, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S65.598S | Other specified injury of blood vessel of other finger, sequela                     | Diagnosis     | ICD-10-CM |
| S65.599  | Other specified injury of blood vessel of unspecified finger                        | Diagnosis     | ICD-10-CM |
| S65.599A | Other specified injury of blood vessel of unspecified finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S65.599D | Other specified injury of blood vessel of unspecified finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S65.599S | Other specified injury of blood vessel of unspecified finger, sequela               | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S65.8    | Injury of other blood vessels at wrist and hand level  | Diagnosis     | ICD-10-CM |
| S65.80   | Unspecified injury of other blood vessels at wrist and hand level  | Diagnosis     | ICD-10-CM |
| S65.801  | Unspecified injury of other blood vessels at wrist and hand level of right arm                             | Diagnosis     | ICD-10-CM |
| S65.801A | Unspecified injury of other blood vessels at wrist and hand level of right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S65.801D | Unspecified injury of other blood vessels at wrist and hand level of right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S65.801S | Unspecified injury of other blood vessels at wrist and hand level of right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S65.802  | Unspecified injury of other blood vessels at wrist and hand level of left arm                              | Diagnosis     | ICD-10-CM |
| S65.802A | Unspecified injury of other blood vessels at wrist and hand level of left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S65.802D | Unspecified injury of other blood vessels at wrist and hand level of left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S65.802S | Unspecified injury of other blood vessels at wrist and hand level of left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S65.809  | Unspecified injury of other blood vessels at wrist and hand level of unspecified arm                       | Diagnosis     | ICD-10-CM |
| S65.809A | Unspecified injury of other blood vessels at wrist and hand level of unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S65.809D | Unspecified injury of other blood vessels at wrist and hand level of unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S65.809S | Unspecified injury of other blood vessels at wrist and hand level of unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S65.81   | Laceration of other blood vessels at wrist and hand level  | Diagnosis     | ICD-10-CM |
| S65.811  | Laceration of other blood vessels at wrist and hand level of right arm                                     | Diagnosis     | ICD-10-CM |
| S65.811A | Laceration of other blood vessels at wrist and hand level of right arm, initial encounter                  | Diagnosis     | ICD-10-CM |
| S65.811D | Laceration of other blood vessels at wrist and hand level of right arm, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S65.811S | Laceration of other blood vessels at wrist and hand level of right arm, sequela                            | Diagnosis     | ICD-10-CM |
| S65.812  | Laceration of other blood vessels at wrist and hand level of left arm                                      | Diagnosis     | ICD-10-CM |
| S65.812A | Laceration of other blood vessels at wrist and hand level of left arm, initial encounter                   | Diagnosis     | ICD-10-CM |
| S65.812D | Laceration of other blood vessels at wrist and hand level of left arm, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S65.812S | Laceration of other blood vessels at wrist and hand level of left arm, sequela                             | Diagnosis     | ICD-10-CM |
| S65.819  | Laceration of other blood vessels at wrist and hand level of unspecified arm                               | Diagnosis     | ICD-10-CM |
| S65.819A | Laceration of other blood vessels at wrist and hand level of unspecified arm, initial encounter            | Diagnosis     | ICD-10-CM |
| S65.819D | Laceration of other blood vessels at wrist and hand level of unspecified arm, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S65.819S | Laceration of other blood vessels at wrist and hand level of unspecified arm, sequela                      | Diagnosis     | ICD-10-CM |
| S65.89   | Other specified injury of other blood vessels at wrist and hand level                                      | Diagnosis     | ICD-10-CM |
| S65.891  | Other specified injury of other blood vessels at wrist and hand level of right arm                         | Diagnosis     | ICD-10-CM |
| S65.891A | Other specified injury of other blood vessels at wrist and hand level of right arm, initial encounter      | Diagnosis     | ICD-10-CM |
| S65.891D | Other specified injury of other blood vessels at wrist and hand level of right arm, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S65.891S | Other specified injury of other blood vessels at wrist and hand level of right arm, sequela                | Diagnosis     | ICD-10-CM |
| S65.892  | Other specified injury of other blood vessels at wrist and hand level of left arm                          | Diagnosis     | ICD-10-CM |
| S65.892A | Other specified injury of other blood vessels at wrist and hand level of left arm, initial encounter       | Diagnosis     | ICD-10-CM |
| S65.892D | Other specified injury of other blood vessels at wrist and hand level of left arm, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S65.892S | Other specified injury of other blood vessels at wrist and hand level of left arm, sequela                 | Diagnosis     | ICD-10-CM |
| S65.899  | Other specified injury of other blood vessels at wrist and hand level of unspecified arm                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S65.899A | Other specified injury of other blood vessels at wrist and hand level of unspecified arm, initial encounter     | Diagnosis     | ICD-10-CM |
| S65.899D | Other specified injury of other blood vessels at wrist and hand level of unspecified arm, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S65.899S | Other specified injury of other blood vessels at wrist and hand level of unspecified arm, sequela               | Diagnosis     | ICD-10-CM |
| S65.9    | Injury of unspecified blood vessel at wrist and hand level  | Diagnosis     | ICD-10-CM |
| S65.90   | Unspecified injury of unspecified blood vessel at wrist and hand level  | Diagnosis     | ICD-10-CM |
| S65.901  | Unspecified injury of unspecified blood vessel at wrist and hand level of right arm                             | Diagnosis     | ICD-10-CM |
| S65.901A | Unspecified injury of unspecified blood vessel at wrist and hand level of right arm, initial encounter          | Diagnosis     | ICD-10-CM |
| S65.901D | Unspecified injury of unspecified blood vessel at wrist and hand level of right arm, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S65.901S | Unspecified injury of unspecified blood vessel at wrist and hand level of right arm, sequela                    | Diagnosis     | ICD-10-CM |
| S65.902  | Unspecified injury of unspecified blood vessel at wrist and hand level of left arm                              | Diagnosis     | ICD-10-CM |
| S65.902A | Unspecified injury of unspecified blood vessel at wrist and hand level of left arm, initial encounter           | Diagnosis     | ICD-10-CM |
| S65.902D | Unspecified injury of unspecified blood vessel at wrist and hand level of left arm, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S65.902S | Unspecified injury of unspecified blood vessel at wrist and hand level of left arm, sequela                     | Diagnosis     | ICD-10-CM |
| S65.909  | Unspecified injury of unspecified blood vessel at wrist and hand level of unspecified arm                       | Diagnosis     | ICD-10-CM |
| S65.909A | Unspecified injury of unspecified blood vessel at wrist and hand level of unspecified arm, initial encounter    | Diagnosis     | ICD-10-CM |
| S65.909D | Unspecified injury of unspecified blood vessel at wrist and hand level of unspecified arm, subsequent encounter | Diagnosis     | ICD-10-CM |
| S65.909S | Unspecified injury of unspecified blood vessel at wrist and hand level of unspecified arm, sequela              | Diagnosis     | ICD-10-CM |
| S65.91   | Laceration of unspecified blood vessel at wrist and hand level  | Diagnosis     | ICD-10-CM |
| S65.911  | Laceration of unspecified blood vessel at wrist and hand level of right arm                                     | Diagnosis     | ICD-10-CM |
| S65.911A | Laceration of unspecified blood vessel at wrist and hand level of right arm, initial encounter                  | Diagnosis     | ICD-10-CM |
| S65.911D | Laceration of unspecified blood vessel at wrist and hand level of right arm, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S65.911S | Laceration of unspecified blood vessel at wrist and hand level of right arm, sequela                            | Diagnosis     | ICD-10-CM |
| S65.912  | Laceration of unspecified blood vessel at wrist and hand level of left arm                                      | Diagnosis     | ICD-10-CM |
| S65.912A | Laceration of unspecified blood vessel at wrist and hand level of left arm, initial encounter                   | Diagnosis     | ICD-10-CM |
| S65.912D | Laceration of unspecified blood vessel at wrist and hand level of left arm, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S65.912S | Laceration of unspecified blood vessel at wrist and hand level of left arm, sequela                             | Diagnosis     | ICD-10-CM |
| S65.919  | Laceration of unspecified blood vessel at wrist and hand level of unspecified arm                               | Diagnosis     | ICD-10-CM |
| S65.919A | Laceration of unspecified blood vessel at wrist and hand level of unspecified arm, initial encounter            | Diagnosis     | ICD-10-CM |
| S65.919D | Laceration of unspecified blood vessel at wrist and hand level of unspecified arm, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S65.919S | Laceration of unspecified blood vessel at wrist and hand level of unspecified arm, sequela                      | Diagnosis     | ICD-10-CM |
| S65.99   | Other specified injury of unspecified blood vessel at wrist and hand level                                      | Diagnosis     | ICD-10-CM |
| S65.991  | Other specified injury of unspecified blood vessel at wrist and hand of right arm                               | Diagnosis     | ICD-10-CM |
| S65.991A | Other specified injury of unspecified blood vessel at wrist and hand of right arm, initial encounter            | Diagnosis     | ICD-10-CM |
| S65.991D | Other specified injury of unspecified blood vessel at wrist and hand of right arm, subsequent encounter         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S65.991S | Other specified injury of unspecified blood vessel at wrist and hand of right arm, sequela                                     | Diagnosis     | ICD-10-CM |
| S65.992  | Other specified injury of unspecified blood vessel at wrist and hand of left arm   | Diagnosis     | ICD-10-CM |
| S65.992A | Other specified injury of unspecified blood vessel at wrist and hand of left arm, initial encounter                            | Diagnosis     | ICD-10-CM |
| S65.992D | Other specified injury of unspecified blood vessel at wrist and hand of left arm, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S65.992S | Other specified injury of unspecified blood vessel at wrist and hand of left arm, sequela                                      | Diagnosis     | ICD-10-CM |
| S65.999  | Other specified injury of unspecified blood vessel at wrist and hand of unspecified arm  | Diagnosis     | ICD-10-CM |
| S65.999A | Other specified injury of unspecified blood vessel at wrist and hand of unspecified arm, initial encounter                     | Diagnosis     | ICD-10-CM |
| S65.999D | Other specified injury of unspecified blood vessel at wrist and hand of unspecified arm, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S65.999S | Other specified injury of unspecified blood vessel at wrist and hand of unspecified arm, sequela                               | Diagnosis     | ICD-10-CM |
| S66      | Injury of muscle, fascia and tendon at wrist and hand level  | Diagnosis     | ICD-10-CM |
| S66.0    | Injury of long flexor muscle, fascia and tendon of thumb at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S66.00   | Unspecified injury of long flexor muscle, fascia and tendon of thumb at wrist and hand level                                   | Diagnosis     | ICD-10-CM |
| S66.001  | Unspecified injury of long flexor muscle, fascia and tendon of right thumb at wrist and hand level                             | Diagnosis     | ICD-10-CM |
| S66.001A | Unspecified injury of long flexor muscle, fascia and tendon of right thumb at wrist and hand level, initial encounter          | Diagnosis     | ICD-10-CM |
| S66.001D | Unspecified injury of long flexor muscle, fascia and tendon of right thumb at wrist and hand level, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S66.001S | Unspecified injury of long flexor muscle, fascia and tendon of right thumb at wrist and hand level, sequela                    | Diagnosis     | ICD-10-CM |
| S66.002  | Unspecified injury of long flexor muscle, fascia and tendon of left thumb at wrist and hand level                              | Diagnosis     | ICD-10-CM |
| S66.002A | Unspecified injury of long flexor muscle, fascia and tendon of left thumb at wrist and hand level, initial encounter           | Diagnosis     | ICD-10-CM |
| S66.002D | Unspecified injury of long flexor muscle, fascia and tendon of left thumb at wrist and hand level, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S66.002S | Unspecified injury of long flexor muscle, fascia and tendon of left thumb at wrist and hand level, sequela                     | Diagnosis     | ICD-10-CM |
| S66.009  | Unspecified injury of long flexor muscle, fascia and tendon of unspecified thumb at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.009A | Unspecified injury of long flexor muscle, fascia and tendon of unspecified thumb at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.009D | Unspecified injury of long flexor muscle, fascia and tendon of unspecified thumb at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.009S | Unspecified injury of long flexor muscle, fascia and tendon of unspecified thumb at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.01   | Strain of long flexor muscle, fascia and tendon of thumb at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S66.011  | Strain of long flexor muscle, fascia and tendon of right thumb at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S66.011A | Strain of long flexor muscle, fascia and tendon of right thumb at wrist and hand level, initial encounter                      | Diagnosis     | ICD-10-CM |
| S66.011D | Strain of long flexor muscle, fascia and tendon of right thumb at wrist and hand level, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S66.011S | Strain of long flexor muscle, fascia and tendon of right thumb at wrist and hand level, sequela                                | Diagnosis     | ICD-10-CM |
| S66.012  | Strain of long flexor muscle, fascia and tendon of left thumb at wrist and hand level  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S66.012A | Strain of long flexor muscle, fascia and tendon of left thumb at wrist and hand level, initial encounter                     | Diagnosis     | ICD-10-CM |
| S66.012D | Strain of long flexor muscle, fascia and tendon of left thumb at wrist and hand level, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S66.012S | Strain of long flexor muscle, fascia and tendon of left thumb at wrist and hand level, sequela                               | Diagnosis     | ICD-10-CM |
| S66.019  | Strain of long flexor muscle, fascia and tendon of unspecified thumb at wrist and hand level                                 | Diagnosis     | ICD-10-CM |
| S66.019A | Strain of long flexor muscle, fascia and tendon of unspecified thumb at wrist and hand level, initial encounter              | Diagnosis     | ICD-10-CM |
| S66.019D | Strain of long flexor muscle, fascia and tendon of unspecified thumb at wrist and hand level, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S66.019S | Strain of long flexor muscle, fascia and tendon of unspecified thumb at wrist and hand level, sequela                        | Diagnosis     | ICD-10-CM |
| S66.02   | Laceration of long flexor muscle, fascia and tendon of thumb at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S66.021  | Laceration of long flexor muscle, fascia and tendon of right thumb at wrist and hand level                                   | Diagnosis     | ICD-10-CM |
| S66.021A | Laceration of long flexor muscle, fascia and tendon of right thumb at wrist and hand level, initial encounter                | Diagnosis     | ICD-10-CM |
| S66.021D | Laceration of long flexor muscle, fascia and tendon of right thumb at wrist and hand level, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S66.021S | Laceration of long flexor muscle, fascia and tendon of right thumb at wrist and hand level, sequela                          | Diagnosis     | ICD-10-CM |
| S66.022  | Laceration of long flexor muscle, fascia and tendon of left thumb at wrist and hand level                                    | Diagnosis     | ICD-10-CM |
| S66.022A | Laceration of long flexor muscle, fascia and tendon of left thumb at wrist and hand level, initial encounter                 | Diagnosis     | ICD-10-CM |
| S66.022D | Laceration of long flexor muscle, fascia and tendon of left thumb at wrist and hand level, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S66.022S | Laceration of long flexor muscle, fascia and tendon of left thumb at wrist and hand level, sequela                           | Diagnosis     | ICD-10-CM |
| S66.029  | Laceration of long flexor muscle, fascia and tendon of unspecified thumb at wrist and hand level                             | Diagnosis     | ICD-10-CM |
| S66.029A | Laceration of long flexor muscle, fascia and tendon of unspecified thumb at wrist and hand level, initial encounter          | Diagnosis     | ICD-10-CM |
| S66.029D | Laceration of long flexor muscle, fascia and tendon of unspecified thumb at wrist and hand level, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S66.029S | Laceration of long flexor muscle, fascia and tendon of unspecified thumb at wrist and hand level, sequela                    | Diagnosis     | ICD-10-CM |
| S66.09   | Other specified injury of long flexor muscle, fascia and tendon of thumb at wrist and hand level                             | Diagnosis     | ICD-10-CM |
| S66.091  | Other specified injury of long flexor muscle, fascia and tendon of right thumb at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.091A | Other specified injury of long flexor muscle, fascia and tendon of right thumb at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.091D | Other specified injury of long flexor muscle, fascia and tendon of right thumb at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.091S | Other specified injury of long flexor muscle, fascia and tendon of right thumb at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.092  | Other specified injury of long flexor muscle, fascia and tendon of left thumb at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.092A | Other specified injury of long flexor muscle, fascia and tendon of left thumb at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S66.092D | Other specified injury of long flexor muscle, fascia and tendon of left thumb at wrist and hand level, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S66.092S | Other specified injury of long flexor muscle, fascia and tendon of left thumb at wrist and hand level, sequela                     | Diagnosis     | ICD-10-CM |
| S66.099  | Other specified injury of long flexor muscle, fascia and tendon of unspecified thumb at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.099A | Other specified injury of long flexor muscle, fascia and tendon of unspecified thumb at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.099D | Other specified injury of long flexor muscle, fascia and tendon of unspecified thumb at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.099S | Other specified injury of long flexor muscle, fascia and tendon of unspecified thumb at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.1    | Injury of flexor muscle, fascia and tendon of other and unspecified finger at wrist and hand level                                 | Diagnosis     | ICD-10-CM |
| S66.10   | Unspecified injury of flexor muscle, fascia and tendon of other and unspecified finger at wrist and hand level                     | Diagnosis     | ICD-10-CM |
| S66.100  | Unspecified injury of flexor muscle, fascia and tendon of right index finger at wrist and hand level                               | Diagnosis     | ICD-10-CM |
| S66.100A | Unspecified injury of flexor muscle, fascia and tendon of right index finger at wrist and hand level, initial encounter            | Diagnosis     | ICD-10-CM |
| S66.100D | Unspecified injury of flexor muscle, fascia and tendon of right index finger at wrist and hand level, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S66.100S | Unspecified injury of flexor muscle, fascia and tendon of right index finger at wrist and hand level, sequela                      | Diagnosis     | ICD-10-CM |
| S66.101  | Unspecified injury of flexor muscle, fascia and tendon of left index finger at wrist and hand level                                | Diagnosis     | ICD-10-CM |
| S66.101A | Unspecified injury of flexor muscle, fascia and tendon of left index finger at wrist and hand level, initial encounter             | Diagnosis     | ICD-10-CM |
| S66.101D | Unspecified injury of flexor muscle, fascia and tendon of left index finger at wrist and hand level, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S66.101S | Unspecified injury of flexor muscle, fascia and tendon of left index finger at wrist and hand level, sequela                       | Diagnosis     | ICD-10-CM |
| S66.102  | Unspecified injury of flexor muscle, fascia and tendon of right middle finger at wrist and hand level                              | Diagnosis     | ICD-10-CM |
| S66.102A | Unspecified injury of flexor muscle, fascia and tendon of right middle finger at wrist and hand level, initial encounter           | Diagnosis     | ICD-10-CM |
| S66.102D | Unspecified injury of flexor muscle, fascia and tendon of right middle finger at wrist and hand level, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S66.102S | Unspecified injury of flexor muscle, fascia and tendon of right middle finger at wrist and hand level, sequela                     | Diagnosis     | ICD-10-CM |
| S66.103  | Unspecified injury of flexor muscle, fascia and tendon of left middle finger at wrist and hand level                               | Diagnosis     | ICD-10-CM |
| S66.103A | Unspecified injury of flexor muscle, fascia and tendon of left middle finger at wrist and hand level, initial encounter            | Diagnosis     | ICD-10-CM |
| S66.103D | Unspecified injury of flexor muscle, fascia and tendon of left middle finger at wrist and hand level, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S66.103S | Unspecified injury of flexor muscle, fascia and tendon of left middle finger at wrist and hand level, sequela                      | Diagnosis     | ICD-10-CM |
| S66.104  | Unspecified injury of flexor muscle, fascia and tendon of right ring finger at wrist and hand level                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S66.104A | Unspecified injury of flexor muscle, fascia and tendon of right ring finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.104D | Unspecified injury of flexor muscle, fascia and tendon of right ring finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S66.104S | Unspecified injury of flexor muscle, fascia and tendon of right ring finger at wrist and hand level, sequela                | Diagnosis     | ICD-10-CM |
| S66.105  | Unspecified injury of flexor muscle, fascia and tendon of left ring finger at wrist and hand level                          | Diagnosis     | ICD-10-CM |
| S66.105A | Unspecified injury of flexor muscle, fascia and tendon of left ring finger at wrist and hand level, initial encounter       | Diagnosis     | ICD-10-CM |
| S66.105D | Unspecified injury of flexor muscle, fascia and tendon of left ring finger at wrist and hand level, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S66.105S | Unspecified injury of flexor muscle, fascia and tendon of left ring finger at wrist and hand level, sequela                 | Diagnosis     | ICD-10-CM |
| S66.106  | Unspecified injury of flexor muscle, fascia and tendon of right little finger at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.106A | Unspecified injury of flexor muscle, fascia and tendon of right little finger at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.106D | Unspecified injury of flexor muscle, fascia and tendon of right little finger at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.106S | Unspecified injury of flexor muscle, fascia and tendon of right little finger at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.107  | Unspecified injury of flexor muscle, fascia and tendon of left little finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.107A | Unspecified injury of flexor muscle, fascia and tendon of left little finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.107D | Unspecified injury of flexor muscle, fascia and tendon of left little finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.107S | Unspecified injury of flexor muscle, fascia and tendon of left little finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.108  | Unspecified injury of flexor muscle, fascia and tendon of other finger at wrist and hand level                              | Diagnosis     | ICD-10-CM |
| S66.108A | Unspecified injury of flexor muscle, fascia and tendon of other finger at wrist and hand level, initial encounter           | Diagnosis     | ICD-10-CM |
| S66.108D | Unspecified injury of flexor muscle, fascia and tendon of other finger at wrist and hand level, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S66.108S | Unspecified injury of flexor muscle, fascia and tendon of other finger at wrist and hand level, sequela                     | Diagnosis     | ICD-10-CM |
| S66.109  | Unspecified injury of flexor muscle, fascia and tendon of unspecified finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.109A | Unspecified injury of flexor muscle, fascia and tendon of unspecified finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.109D | Unspecified injury of flexor muscle, fascia and tendon of unspecified finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.109S | Unspecified injury of flexor muscle, fascia and tendon of unspecified finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.11   | Strain of flexor muscle, fascia and tendon of other and unspecified finger at wrist and hand level                          | Diagnosis     | ICD-10-CM |
| S66.110  | Strain of flexor muscle, fascia and tendon of right index finger at wrist and hand level                                    | Diagnosis     | ICD-10-CM |
| S66.110A | Strain of flexor muscle, fascia and tendon of right index finger at wrist and hand level, initial encounter                 | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S66.110D | Strain of flexor muscle, fascia and tendon of right index finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.110S | Strain of flexor muscle, fascia and tendon of right index finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.111  | Strain of flexor muscle, fascia and tendon of left index finger at wrist and hand level                         | Diagnosis     | ICD-10-CM |
| S66.111A | Strain of flexor muscle, fascia and tendon of left index finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.111D | Strain of flexor muscle, fascia and tendon of left index finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S66.111S | Strain of flexor muscle, fascia and tendon of left index finger at wrist and hand level, sequela                | Diagnosis     | ICD-10-CM |
| S66.112  | Strain of flexor muscle, fascia and tendon of right middle finger at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.112A | Strain of flexor muscle, fascia and tendon of right middle finger at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.112D | Strain of flexor muscle, fascia and tendon of right middle finger at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.112S | Strain of flexor muscle, fascia and tendon of right middle finger at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.113  | Strain of flexor muscle, fascia and tendon of left middle finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.113A | Strain of flexor muscle, fascia and tendon of left middle finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.113D | Strain of flexor muscle, fascia and tendon of left middle finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.113S | Strain of flexor muscle, fascia and tendon of left middle finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.114  | Strain of flexor muscle, fascia and tendon of right ring finger at wrist and hand level                         | Diagnosis     | ICD-10-CM |
| S66.114A | Strain of flexor muscle, fascia and tendon of right ring finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.114D | Strain of flexor muscle, fascia and tendon of right ring finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S66.114S | Strain of flexor muscle, fascia and tendon of right ring finger at wrist and hand level, sequela                | Diagnosis     | ICD-10-CM |
| S66.115  | Strain of flexor muscle, fascia and tendon of left ring finger at wrist and hand level                          | Diagnosis     | ICD-10-CM |
| S66.115A | Strain of flexor muscle, fascia and tendon of left ring finger at wrist and hand level, initial encounter       | Diagnosis     | ICD-10-CM |
| S66.115D | Strain of flexor muscle, fascia and tendon of left ring finger at wrist and hand level, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S66.115S | Strain of flexor muscle, fascia and tendon of left ring finger at wrist and hand level, sequela                 | Diagnosis     | ICD-10-CM |
| S66.116  | Strain of flexor muscle, fascia and tendon of right little finger at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.116A | Strain of flexor muscle, fascia and tendon of right little finger at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.116D | Strain of flexor muscle, fascia and tendon of right little finger at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.116S | Strain of flexor muscle, fascia and tendon of right little finger at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.117  | Strain of flexor muscle, fascia and tendon of left little finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.117A | Strain of flexor muscle, fascia and tendon of left little finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.117D | Strain of flexor muscle, fascia and tendon of left little finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S66.117S | Strain of flexor muscle, fascia and tendon of left little finger at wrist and hand level, sequela                   | Diagnosis     | ICD-10-CM |
| S66.118  | Strain of flexor muscle, fascia and tendon of other finger at wrist and hand level                                  | Diagnosis     | ICD-10-CM |
| S66.118A | Strain of flexor muscle, fascia and tendon of other finger at wrist and hand level, initial encounter               | Diagnosis     | ICD-10-CM |
| S66.118D | Strain of flexor muscle, fascia and tendon of other finger at wrist and hand level, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S66.118S | Strain of flexor muscle, fascia and tendon of other finger at wrist and hand level, sequela                         | Diagnosis     | ICD-10-CM |
| S66.119  | Strain of flexor muscle, fascia and tendon of unspecified finger at wrist and hand level                            | Diagnosis     | ICD-10-CM |
| S66.119A | Strain of flexor muscle, fascia and tendon of unspecified finger at wrist and hand level, initial encounter         | Diagnosis     | ICD-10-CM |
| S66.119D | Strain of flexor muscle, fascia and tendon of unspecified finger at wrist and hand level, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S66.119S | Strain of flexor muscle, fascia and tendon of unspecified finger at wrist and hand level, sequela                   | Diagnosis     | ICD-10-CM |
| S66.12   | Laceration of flexor muscle, fascia and tendon of other and unspecified finger at wrist and hand level              | Diagnosis     | ICD-10-CM |
| S66.120  | Laceration of flexor muscle, fascia and tendon of right index finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.120A | Laceration of flexor muscle, fascia and tendon of right index finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.120D | Laceration of flexor muscle, fascia and tendon of right index finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.120S | Laceration of flexor muscle, fascia and tendon of right index finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.121  | Laceration of flexor muscle, fascia and tendon of left index finger at wrist and hand level                         | Diagnosis     | ICD-10-CM |
| S66.121A | Laceration of flexor muscle, fascia and tendon of left index finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.121D | Laceration of flexor muscle, fascia and tendon of left index finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S66.121S | Laceration of flexor muscle, fascia and tendon of left index finger at wrist and hand level, sequela                | Diagnosis     | ICD-10-CM |
| S66.122  | Laceration of flexor muscle, fascia and tendon of right middle finger at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.122A | Laceration of flexor muscle, fascia and tendon of right middle finger at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.122D | Laceration of flexor muscle, fascia and tendon of right middle finger at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.122S | Laceration of flexor muscle, fascia and tendon of right middle finger at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.123  | Laceration of flexor muscle, fascia and tendon of left middle finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.123A | Laceration of flexor muscle, fascia and tendon of left middle finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.123D | Laceration of flexor muscle, fascia and tendon of left middle finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.123S | Laceration of flexor muscle, fascia and tendon of left middle finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.124  | Laceration of flexor muscle, fascia and tendon of right ring finger at wrist and hand level                         | Diagnosis     | ICD-10-CM |
| S66.124A | Laceration of flexor muscle, fascia and tendon of right ring finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.124D | Laceration of flexor muscle, fascia and tendon of right ring finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S66.124S | Laceration of flexor muscle, fascia and tendon of right ring finger at wrist and hand level, sequela                 | Diagnosis     | ICD-10-CM |
| S66.125  | Laceration of flexor muscle, fascia and tendon of left ring finger at wrist and hand level                           | Diagnosis     | ICD-10-CM |
| S66.125A | Laceration of flexor muscle, fascia and tendon of left ring finger at wrist and hand level, initial encounter        | Diagnosis     | ICD-10-CM |
| S66.125D | Laceration of flexor muscle, fascia and tendon of left ring finger at wrist and hand level, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S66.125S | Laceration of flexor muscle, fascia and tendon of left ring finger at wrist and hand level, sequela                  | Diagnosis     | ICD-10-CM |
| S66.126  | Laceration of flexor muscle, fascia and tendon of right little finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.126A | Laceration of flexor muscle, fascia and tendon of right little finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.126D | Laceration of flexor muscle, fascia and tendon of right little finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.126S | Laceration of flexor muscle, fascia and tendon of right little finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.127  | Laceration of flexor muscle, fascia and tendon of left little finger at wrist and hand level                         | Diagnosis     | ICD-10-CM |
| S66.127A | Laceration of flexor muscle, fascia and tendon of left little finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.127D | Laceration of flexor muscle, fascia and tendon of left little finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S66.127S | Laceration of flexor muscle, fascia and tendon of left little finger at wrist and hand level, sequela                | Diagnosis     | ICD-10-CM |
| S66.128  | Laceration of flexor muscle, fascia and tendon of other finger at wrist and hand level                               | Diagnosis     | ICD-10-CM |
| S66.128A | Laceration of flexor muscle, fascia and tendon of other finger at wrist and hand level, initial encounter            | Diagnosis     | ICD-10-CM |
| S66.128D | Laceration of flexor muscle, fascia and tendon of other finger at wrist and hand level, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S66.128S | Laceration of flexor muscle, fascia and tendon of other finger at wrist and hand level, sequela                      | Diagnosis     | ICD-10-CM |
| S66.129  | Laceration of flexor muscle, fascia and tendon of unspecified finger at wrist and hand level                         | Diagnosis     | ICD-10-CM |
| S66.129A | Laceration of flexor muscle, fascia and tendon of unspecified finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.129D | Laceration of flexor muscle, fascia and tendon of unspecified finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S66.129S | Laceration of flexor muscle, fascia and tendon of unspecified finger at wrist and hand level, sequela                | Diagnosis     | ICD-10-CM |
| S66.19   | Other injury of flexor muscle, fascia and tendon of other and unspecified finger at wrist and hand level             | Diagnosis     | ICD-10-CM |
| S66.190  | Other injury of flexor muscle, fascia and tendon of right index finger at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.190A | Other injury of flexor muscle, fascia and tendon of right index finger at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.190D | Other injury of flexor muscle, fascia and tendon of right index finger at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.190S | Other injury of flexor muscle, fascia and tendon of right index finger at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.191  | Other injury of flexor muscle, fascia and tendon of left index finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.191A | Other injury of flexor muscle, fascia and tendon of left index finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S66.191D | Other injury of flexor muscle, fascia and tendon of left index finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S66.191S | Other injury of flexor muscle, fascia and tendon of left index finger at wrist and hand level, sequela                | Diagnosis     | ICD-10-CM |
| S66.192  | Other injury of flexor muscle, fascia and tendon of right middle finger at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.192A | Other injury of flexor muscle, fascia and tendon of right middle finger at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.192D | Other injury of flexor muscle, fascia and tendon of right middle finger at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.192S | Other injury of flexor muscle, fascia and tendon of right middle finger at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.193  | Other injury of flexor muscle, fascia and tendon of left middle finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.193A | Other injury of flexor muscle, fascia and tendon of left middle finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.193D | Other injury of flexor muscle, fascia and tendon of left middle finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.193S | Other injury of flexor muscle, fascia and tendon of left middle finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.194  | Other injury of flexor muscle, fascia and tendon of right ring finger at wrist and hand level                         | Diagnosis     | ICD-10-CM |
| S66.194A | Other injury of flexor muscle, fascia and tendon of right ring finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.194D | Other injury of flexor muscle, fascia and tendon of right ring finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S66.194S | Other injury of flexor muscle, fascia and tendon of right ring finger at wrist and hand level, sequela                | Diagnosis     | ICD-10-CM |
| S66.195  | Other injury of flexor muscle, fascia and tendon of left ring finger at wrist and hand level                          | Diagnosis     | ICD-10-CM |
| S66.195A | Other injury of flexor muscle, fascia and tendon of left ring finger at wrist and hand level, initial encounter       | Diagnosis     | ICD-10-CM |
| S66.195D | Other injury of flexor muscle, fascia and tendon of left ring finger at wrist and hand level, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S66.195S | Other injury of flexor muscle, fascia and tendon of left ring finger at wrist and hand level, sequela                 | Diagnosis     | ICD-10-CM |
| S66.196  | Other injury of flexor muscle, fascia and tendon of right little finger at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.196A | Other injury of flexor muscle, fascia and tendon of right little finger at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.196D | Other injury of flexor muscle, fascia and tendon of right little finger at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.196S | Other injury of flexor muscle, fascia and tendon of right little finger at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.197  | Other injury of flexor muscle, fascia and tendon of left little finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.197A | Other injury of flexor muscle, fascia and tendon of left little finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.197D | Other injury of flexor muscle, fascia and tendon of left little finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.197S | Other injury of flexor muscle, fascia and tendon of left little finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.198  | Other injury of flexor muscle, fascia and tendon of other finger at wrist and hand level                              | Diagnosis     | ICD-10-CM |
| S66.198A | Other injury of flexor muscle, fascia and tendon of other finger at wrist and hand level, initial encounter           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S66.198D | Other injury of flexor muscle, fascia and tendon of other finger at wrist and hand level, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S66.198S | Other injury of flexor muscle, fascia and tendon of other finger at wrist and hand level, sequela                           | Diagnosis     | ICD-10-CM |
| S66.199  | Other injury of flexor muscle, fascia and tendon of unspecified finger at wrist and hand level                              | Diagnosis     | ICD-10-CM |
| S66.199A | Other injury of flexor muscle, fascia and tendon of unspecified finger at wrist and hand level, initial encounter           | Diagnosis     | ICD-10-CM |
| S66.199D | Other injury of flexor muscle, fascia and tendon of unspecified finger at wrist and hand level, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S66.199S | Other injury of flexor muscle, fascia and tendon of unspecified finger at wrist and hand level, sequela                     | Diagnosis     | ICD-10-CM |
| S66.2    | Injury of extensor muscle, fascia and tendon of thumb at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S66.20   | Unspecified injury of extensor muscle, fascia and tendon of thumb at wrist and hand level                                   | Diagnosis     | ICD-10-CM |
| S66.201  | Unspecified injury of extensor muscle, fascia and tendon of right thumb at wrist and hand level                             | Diagnosis     | ICD-10-CM |
| S66.201A | Unspecified injury of extensor muscle, fascia and tendon of right thumb at wrist and hand level, initial encounter          | Diagnosis     | ICD-10-CM |
| S66.201D | Unspecified injury of extensor muscle, fascia and tendon of right thumb at wrist and hand level, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S66.201S | Unspecified injury of extensor muscle, fascia and tendon of right thumb at wrist and hand level, sequela                    | Diagnosis     | ICD-10-CM |
| S66.202  | Unspecified injury of extensor muscle, fascia and tendon of left thumb at wrist and hand level                              | Diagnosis     | ICD-10-CM |
| S66.202A | Unspecified injury of extensor muscle, fascia and tendon of left thumb at wrist and hand level, initial encounter           | Diagnosis     | ICD-10-CM |
| S66.202D | Unspecified injury of extensor muscle, fascia and tendon of left thumb at wrist and hand level, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S66.202S | Unspecified injury of extensor muscle, fascia and tendon of left thumb at wrist and hand level, sequela                     | Diagnosis     | ICD-10-CM |
| S66.209  | Unspecified injury of extensor muscle, fascia and tendon of unspecified thumb at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.209A | Unspecified injury of extensor muscle, fascia and tendon of unspecified thumb at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.209D | Unspecified injury of extensor muscle, fascia and tendon of unspecified thumb at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.209S | Unspecified injury of extensor muscle, fascia and tendon of unspecified thumb at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.21   | Strain of extensor muscle, fascia and tendon of thumb at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S66.211  | Strain of extensor muscle, fascia and tendon of right thumb at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S66.211A | Strain of extensor muscle, fascia and tendon of right thumb at wrist and hand level, initial encounter                      | Diagnosis     | ICD-10-CM |
| S66.211D | Strain of extensor muscle, fascia and tendon of right thumb at wrist and hand level, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S66.211S | Strain of extensor muscle, fascia and tendon of right thumb at wrist and hand level, sequela                                | Diagnosis     | ICD-10-CM |
| S66.212  | Strain of extensor muscle, fascia and tendon of left thumb at wrist and hand level  | Diagnosis     | ICD-10-CM |
| S66.212A | Strain of extensor muscle, fascia and tendon of left thumb at wrist and hand level, initial encounter                       | Diagnosis     | ICD-10-CM |
| S66.212D | Strain of extensor muscle, fascia and tendon of left thumb at wrist and hand level, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S66.212S | Strain of extensor muscle, fascia and tendon of left thumb at wrist and hand level, sequela                                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S66.219  | Strain of extensor muscle, fascia and tendon of unspecified thumb at wrist and hand level                                 | Diagnosis     | ICD-10-CM |
| S66.219A | Strain of extensor muscle, fascia and tendon of unspecified thumb at wrist and hand level, initial encounter              | Diagnosis     | ICD-10-CM |
| S66.219D | Strain of extensor muscle, fascia and tendon of unspecified thumb at wrist and hand level, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S66.219S | Strain of extensor muscle, fascia and tendon of unspecified thumb at wrist and hand level, sequela                        | Diagnosis     | ICD-10-CM |
| S66.22   | Laceration of extensor muscle, fascia and tendon of thumb at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S66.221  | Laceration of extensor muscle, fascia and tendon of right thumb at wrist and hand level                                   | Diagnosis     | ICD-10-CM |
| S66.221A | Laceration of extensor muscle, fascia and tendon of right thumb at wrist and hand level, initial encounter                | Diagnosis     | ICD-10-CM |
| S66.221D | Laceration of extensor muscle, fascia and tendon of right thumb at wrist and hand level, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S66.221S | Laceration of extensor muscle, fascia and tendon of right thumb at wrist and hand level, sequela                          | Diagnosis     | ICD-10-CM |
| S66.222  | Laceration of extensor muscle, fascia and tendon of left thumb at wrist and hand level                                    | Diagnosis     | ICD-10-CM |
| S66.222A | Laceration of extensor muscle, fascia and tendon of left thumb at wrist and hand level, initial encounter                 | Diagnosis     | ICD-10-CM |
| S66.222D | Laceration of extensor muscle, fascia and tendon of left thumb at wrist and hand level, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S66.222S | Laceration of extensor muscle, fascia and tendon of left thumb at wrist and hand level, sequela                           | Diagnosis     | ICD-10-CM |
| S66.229  | Laceration of extensor muscle, fascia and tendon of unspecified thumb at wrist and hand level                             | Diagnosis     | ICD-10-CM |
| S66.229A | Laceration of extensor muscle, fascia and tendon of unspecified thumb at wrist and hand level, initial encounter          | Diagnosis     | ICD-10-CM |
| S66.229D | Laceration of extensor muscle, fascia and tendon of unspecified thumb at wrist and hand level, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S66.229S | Laceration of extensor muscle, fascia and tendon of unspecified thumb at wrist and hand level, sequela                    | Diagnosis     | ICD-10-CM |
| S66.29   | Other specified injury of extensor muscle, fascia and tendon of thumb at wrist and hand level                             | Diagnosis     | ICD-10-CM |
| S66.291  | Other specified injury of extensor muscle, fascia and tendon of right thumb at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.291A | Other specified injury of extensor muscle, fascia and tendon of right thumb at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.291D | Other specified injury of extensor muscle, fascia and tendon of right thumb at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.291S | Other specified injury of extensor muscle, fascia and tendon of right thumb at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.292  | Other specified injury of extensor muscle, fascia and tendon of left thumb at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.292A | Other specified injury of extensor muscle, fascia and tendon of left thumb at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.292D | Other specified injury of extensor muscle, fascia and tendon of left thumb at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.292S | Other specified injury of extensor muscle, fascia and tendon of left thumb at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.299  | Other specified injury of extensor muscle, fascia and tendon of unspecified thumb at wrist and hand level                 | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S66.299A | Other specified injury of extensor muscle, fascia and tendon of unspecified thumb at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.299D | Other specified injury of extensor muscle, fascia and tendon of unspecified thumb at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.299S | Other specified injury of extensor muscle, fascia and tendon of unspecified thumb at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.3    | Injury of extensor muscle, fascia and tendon of other and unspecified finger at wrist and hand level                            | Diagnosis     | ICD-10-CM |
| S66.30   | Unspecified injury of extensor muscle, fascia and tendon of other and unspecified finger at wrist and hand level                | Diagnosis     | ICD-10-CM |
| S66.300  | Unspecified injury of extensor muscle, fascia and tendon of right index finger at wrist and hand level                          | Diagnosis     | ICD-10-CM |
| S66.300A | Unspecified injury of extensor muscle, fascia and tendon of right index finger at wrist and hand level, initial encounter       | Diagnosis     | ICD-10-CM |
| S66.300D | Unspecified injury of extensor muscle, fascia and tendon of right index finger at wrist and hand level, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S66.300S | Unspecified injury of extensor muscle, fascia and tendon of right index finger at wrist and hand level, sequela                 | Diagnosis     | ICD-10-CM |
| S66.301  | Unspecified injury of extensor muscle, fascia and tendon of left index finger at wrist and hand level                           | Diagnosis     | ICD-10-CM |
| S66.301A | Unspecified injury of extensor muscle, fascia and tendon of left index finger at wrist and hand level, initial encounter        | Diagnosis     | ICD-10-CM |
| S66.301D | Unspecified injury of extensor muscle, fascia and tendon of left index finger at wrist and hand level, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S66.301S | Unspecified injury of extensor muscle, fascia and tendon of left index finger at wrist and hand level, sequela                  | Diagnosis     | ICD-10-CM |
| S66.302  | Unspecified injury of extensor muscle, fascia and tendon of right middle finger at wrist and hand level                         | Diagnosis     | ICD-10-CM |
| S66.302A | Unspecified injury of extensor muscle, fascia and tendon of right middle finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.302D | Unspecified injury of extensor muscle, fascia and tendon of right middle finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S66.302S | Unspecified injury of extensor muscle, fascia and tendon of right middle finger at wrist and hand level, sequela                | Diagnosis     | ICD-10-CM |
| S66.303  | Unspecified injury of extensor muscle, fascia and tendon of left middle finger at wrist and hand level                          | Diagnosis     | ICD-10-CM |
| S66.303A | Unspecified injury of extensor muscle, fascia and tendon of left middle finger at wrist and hand level, initial encounter       | Diagnosis     | ICD-10-CM |
| S66.303D | Unspecified injury of extensor muscle, fascia and tendon of left middle finger at wrist and hand level, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S66.303S | Unspecified injury of extensor muscle, fascia and tendon of left middle finger at wrist and hand level, sequela                 | Diagnosis     | ICD-10-CM |
| S66.304  | Unspecified injury of extensor muscle, fascia and tendon of right ring finger at wrist and hand level                           | Diagnosis     | ICD-10-CM |
| S66.304A | Unspecified injury of extensor muscle, fascia and tendon of right ring finger at wrist and hand level, initial encounter        | Diagnosis     | ICD-10-CM |
| S66.304D | Unspecified injury of extensor muscle, fascia and tendon of right ring finger at wrist and hand level, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S66.304S | Unspecified injury of extensor muscle, fascia and tendon of right ring finger at wrist and hand level, sequela                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S66.305  | Unspecified injury of extensor muscle, fascia and tendon of left ring finger at wrist and hand level                          | Diagnosis     | ICD-10-CM |
| S66.305A | Unspecified injury of extensor muscle, fascia and tendon of left ring finger at wrist and hand level, initial encounter       | Diagnosis     | ICD-10-CM |
| S66.305D | Unspecified injury of extensor muscle, fascia and tendon of left ring finger at wrist and hand level, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S66.305S | Unspecified injury of extensor muscle, fascia and tendon of left ring finger at wrist and hand level, sequela                 | Diagnosis     | ICD-10-CM |
| S66.306  | Unspecified injury of extensor muscle, fascia and tendon of right little finger at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.306A | Unspecified injury of extensor muscle, fascia and tendon of right little finger at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.306D | Unspecified injury of extensor muscle, fascia and tendon of right little finger at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.306S | Unspecified injury of extensor muscle, fascia and tendon of right little finger at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.307  | Unspecified injury of extensor muscle, fascia and tendon of left little finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.307A | Unspecified injury of extensor muscle, fascia and tendon of left little finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.307D | Unspecified injury of extensor muscle, fascia and tendon of left little finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.307S | Unspecified injury of extensor muscle, fascia and tendon of left little finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.308  | Unspecified injury of extensor muscle, fascia and tendon of other finger at wrist and hand level                              | Diagnosis     | ICD-10-CM |
| S66.308A | Unspecified injury of extensor muscle, fascia and tendon of other finger at wrist and hand level, initial encounter           | Diagnosis     | ICD-10-CM |
| S66.308D | Unspecified injury of extensor muscle, fascia and tendon of other finger at wrist and hand level, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S66.308S | Unspecified injury of extensor muscle, fascia and tendon of other finger at wrist and hand level, sequela                     | Diagnosis     | ICD-10-CM |
| S66.309  | Unspecified injury of extensor muscle, fascia and tendon of unspecified finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.309A | Unspecified injury of extensor muscle, fascia and tendon of unspecified finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.309D | Unspecified injury of extensor muscle, fascia and tendon of unspecified finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.309S | Unspecified injury of extensor muscle, fascia and tendon of unspecified finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.31   | Strain of extensor muscle, fascia and tendon of other and unspecified finger at wrist and hand level                          | Diagnosis     | ICD-10-CM |
| S66.310  | Strain of extensor muscle, fascia and tendon of right index finger at wrist and hand level                                    | Diagnosis     | ICD-10-CM |
| S66.310A | Strain of extensor muscle, fascia and tendon of right index finger at wrist and hand level, initial encounter                 | Diagnosis     | ICD-10-CM |
| S66.310D | Strain of extensor muscle, fascia and tendon of right index finger at wrist and hand level, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S66.310S | Strain of extensor muscle, fascia and tendon of right index finger at wrist and hand level, sequela                           | Diagnosis     | ICD-10-CM |
| S66.311  | Strain of extensor muscle, fascia and tendon of left index finger at wrist and hand level                                     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S66.311A | Strain of extensor muscle, fascia and tendon of left index finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.311D | Strain of extensor muscle, fascia and tendon of left index finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S66.311S | Strain of extensor muscle, fascia and tendon of left index finger at wrist and hand level, sequela                | Diagnosis     | ICD-10-CM |
| S66.312  | Strain of extensor muscle, fascia and tendon of right middle finger at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.312A | Strain of extensor muscle, fascia and tendon of right middle finger at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.312D | Strain of extensor muscle, fascia and tendon of right middle finger at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.312S | Strain of extensor muscle, fascia and tendon of right middle finger at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.313  | Strain of extensor muscle, fascia and tendon of left middle finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.313A | Strain of extensor muscle, fascia and tendon of left middle finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.313D | Strain of extensor muscle, fascia and tendon of left middle finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.313S | Strain of extensor muscle, fascia and tendon of left middle finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.314  | Strain of extensor muscle, fascia and tendon of right ring finger at wrist and hand level                         | Diagnosis     | ICD-10-CM |
| S66.314A | Strain of extensor muscle, fascia and tendon of right ring finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.314D | Strain of extensor muscle, fascia and tendon of right ring finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S66.314S | Strain of extensor muscle, fascia and tendon of right ring finger at wrist and hand level, sequela                | Diagnosis     | ICD-10-CM |
| S66.315  | Strain of extensor muscle, fascia and tendon of left ring finger at wrist and hand level                          | Diagnosis     | ICD-10-CM |
| S66.315A | Strain of extensor muscle, fascia and tendon of left ring finger at wrist and hand level, initial encounter       | Diagnosis     | ICD-10-CM |
| S66.315D | Strain of extensor muscle, fascia and tendon of left ring finger at wrist and hand level, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S66.315S | Strain of extensor muscle, fascia and tendon of left ring finger at wrist and hand level, sequela                 | Diagnosis     | ICD-10-CM |
| S66.316  | Strain of extensor muscle, fascia and tendon of right little finger at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.316A | Strain of extensor muscle, fascia and tendon of right little finger at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.316D | Strain of extensor muscle, fascia and tendon of right little finger at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.316S | Strain of extensor muscle, fascia and tendon of right little finger at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.317  | Strain of extensor muscle, fascia and tendon of left little finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.317A | Strain of extensor muscle, fascia and tendon of left little finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.317D | Strain of extensor muscle, fascia and tendon of left little finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.317S | Strain of extensor muscle, fascia and tendon of left little finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.318  | Strain of extensor muscle, fascia and tendon of other finger at wrist and hand level                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S66.318A | Strain of extensor muscle, fascia and tendon of other finger at wrist and hand level, initial encounter               | Diagnosis     | ICD-10-CM |
| S66.318D | Strain of extensor muscle, fascia and tendon of other finger at wrist and hand level, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S66.318S | Strain of extensor muscle, fascia and tendon of other finger at wrist and hand level, sequela                         | Diagnosis     | ICD-10-CM |
| S66.319  | Strain of extensor muscle, fascia and tendon of unspecified finger at wrist and hand level                            | Diagnosis     | ICD-10-CM |
| S66.319A | Strain of extensor muscle, fascia and tendon of unspecified finger at wrist and hand level, initial encounter         | Diagnosis     | ICD-10-CM |
| S66.319D | Strain of extensor muscle, fascia and tendon of unspecified finger at wrist and hand level, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S66.319S | Strain of extensor muscle, fascia and tendon of unspecified finger at wrist and hand level, sequela                   | Diagnosis     | ICD-10-CM |
| S66.32   | Laceration of extensor muscle, fascia and tendon of other and unspecified finger at wrist and hand level              | Diagnosis     | ICD-10-CM |
| S66.320  | Laceration of extensor muscle, fascia and tendon of right index finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.320A | Laceration of extensor muscle, fascia and tendon of right index finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.320D | Laceration of extensor muscle, fascia and tendon of right index finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.320S | Laceration of extensor muscle, fascia and tendon of right index finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.321  | Laceration of extensor muscle, fascia and tendon of left index finger at wrist and hand level                         | Diagnosis     | ICD-10-CM |
| S66.321A | Laceration of extensor muscle, fascia and tendon of left index finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.321D | Laceration of extensor muscle, fascia and tendon of left index finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S66.321S | Laceration of extensor muscle, fascia and tendon of left index finger at wrist and hand level, sequela                | Diagnosis     | ICD-10-CM |
| S66.322  | Laceration of extensor muscle, fascia and tendon of right middle finger at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.322A | Laceration of extensor muscle, fascia and tendon of right middle finger at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.322D | Laceration of extensor muscle, fascia and tendon of right middle finger at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.322S | Laceration of extensor muscle, fascia and tendon of right middle finger at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.323  | Laceration of extensor muscle, fascia and tendon of left middle finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.323A | Laceration of extensor muscle, fascia and tendon of left middle finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.323D | Laceration of extensor muscle, fascia and tendon of left middle finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.323S | Laceration of extensor muscle, fascia and tendon of left middle finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.324  | Laceration of extensor muscle, fascia and tendon of right ring finger at wrist and hand level                         | Diagnosis     | ICD-10-CM |
| S66.324A | Laceration of extensor muscle, fascia and tendon of right ring finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.324D | Laceration of extensor muscle, fascia and tendon of right ring finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S66.324S | Laceration of extensor muscle, fascia and tendon of right ring finger at wrist and hand level, sequela                 | Diagnosis     | ICD-10-CM |
| S66.325  | Laceration of extensor muscle, fascia and tendon of left ring finger at wrist and hand level                           | Diagnosis     | ICD-10-CM |
| S66.325A | Laceration of extensor muscle, fascia and tendon of left ring finger at wrist and hand level, initial encounter        | Diagnosis     | ICD-10-CM |
| S66.325D | Laceration of extensor muscle, fascia and tendon of left ring finger at wrist and hand level, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S66.325S | Laceration of extensor muscle, fascia and tendon of left ring finger at wrist and hand level, sequela                  | Diagnosis     | ICD-10-CM |
| S66.326  | Laceration of extensor muscle, fascia and tendon of right little finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.326A | Laceration of extensor muscle, fascia and tendon of right little finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.326D | Laceration of extensor muscle, fascia and tendon of right little finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.326S | Laceration of extensor muscle, fascia and tendon of right little finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.327  | Laceration of extensor muscle, fascia and tendon of left little finger at wrist and hand level                         | Diagnosis     | ICD-10-CM |
| S66.327A | Laceration of extensor muscle, fascia and tendon of left little finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.327D | Laceration of extensor muscle, fascia and tendon of left little finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S66.327S | Laceration of extensor muscle, fascia and tendon of left little finger at wrist and hand level, sequela                | Diagnosis     | ICD-10-CM |
| S66.328  | Laceration of extensor muscle, fascia and tendon of other finger at wrist and hand level                               | Diagnosis     | ICD-10-CM |
| S66.328A | Laceration of extensor muscle, fascia and tendon of other finger at wrist and hand level, initial encounter            | Diagnosis     | ICD-10-CM |
| S66.328D | Laceration of extensor muscle, fascia and tendon of other finger at wrist and hand level, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S66.328S | Laceration of extensor muscle, fascia and tendon of other finger at wrist and hand level, sequela                      | Diagnosis     | ICD-10-CM |
| S66.329  | Laceration of extensor muscle, fascia and tendon of unspecified finger at wrist and hand level                         | Diagnosis     | ICD-10-CM |
| S66.329A | Laceration of extensor muscle, fascia and tendon of unspecified finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.329D | Laceration of extensor muscle, fascia and tendon of unspecified finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S66.329S | Laceration of extensor muscle, fascia and tendon of unspecified finger at wrist and hand level, sequela                | Diagnosis     | ICD-10-CM |
| S66.39   | Other injury of extensor muscle, fascia and tendon of other and unspecified finger at wrist and hand level             | Diagnosis     | ICD-10-CM |
| S66.390  | Other injury of extensor muscle, fascia and tendon of right index finger at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.390A | Other injury of extensor muscle, fascia and tendon of right index finger at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.390D | Other injury of extensor muscle, fascia and tendon of right index finger at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.390S | Other injury of extensor muscle, fascia and tendon of right index finger at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.391  | Other injury of extensor muscle, fascia and tendon of left index finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S66.391A | Other injury of extensor muscle, fascia and tendon of left index finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.391D | Other injury of extensor muscle, fascia and tendon of left index finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S66.391S | Other injury of extensor muscle, fascia and tendon of left index finger at wrist and hand level, sequela                | Diagnosis     | ICD-10-CM |
| S66.392  | Other injury of extensor muscle, fascia and tendon of right middle finger at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.392A | Other injury of extensor muscle, fascia and tendon of right middle finger at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.392D | Other injury of extensor muscle, fascia and tendon of right middle finger at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.392S | Other injury of extensor muscle, fascia and tendon of right middle finger at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.393  | Other injury of extensor muscle, fascia and tendon of left middle finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.393A | Other injury of extensor muscle, fascia and tendon of left middle finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.393D | Other injury of extensor muscle, fascia and tendon of left middle finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.393S | Other injury of extensor muscle, fascia and tendon of left middle finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.394  | Other injury of extensor muscle, fascia and tendon of right ring finger at wrist and hand level                         | Diagnosis     | ICD-10-CM |
| S66.394A | Other injury of extensor muscle, fascia and tendon of right ring finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.394D | Other injury of extensor muscle, fascia and tendon of right ring finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S66.394S | Other injury of extensor muscle, fascia and tendon of right ring finger at wrist and hand level, sequela                | Diagnosis     | ICD-10-CM |
| S66.395  | Other injury of extensor muscle, fascia and tendon of left ring finger at wrist and hand level                          | Diagnosis     | ICD-10-CM |
| S66.395A | Other injury of extensor muscle, fascia and tendon of left ring finger at wrist and hand level, initial encounter       | Diagnosis     | ICD-10-CM |
| S66.395D | Other injury of extensor muscle, fascia and tendon of left ring finger at wrist and hand level, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S66.395S | Other injury of extensor muscle, fascia and tendon of left ring finger at wrist and hand level, sequela                 | Diagnosis     | ICD-10-CM |
| S66.396  | Other injury of extensor muscle, fascia and tendon of right little finger at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.396A | Other injury of extensor muscle, fascia and tendon of right little finger at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.396D | Other injury of extensor muscle, fascia and tendon of right little finger at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.396S | Other injury of extensor muscle, fascia and tendon of right little finger at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.397  | Other injury of extensor muscle, fascia and tendon of left little finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.397A | Other injury of extensor muscle, fascia and tendon of left little finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.397D | Other injury of extensor muscle, fascia and tendon of left little finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S66.397S | Other injury of extensor muscle, fascia and tendon of left little finger at wrist and hand level, sequela                    | Diagnosis     | ICD-10-CM |
| S66.398  | Other injury of extensor muscle, fascia and tendon of other finger at wrist and hand level                                   | Diagnosis     | ICD-10-CM |
| S66.398A | Other injury of extensor muscle, fascia and tendon of other finger at wrist and hand level, initial encounter                | Diagnosis     | ICD-10-CM |
| S66.398D | Other injury of extensor muscle, fascia and tendon of other finger at wrist and hand level, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S66.398S | Other injury of extensor muscle, fascia and tendon of other finger at wrist and hand level, sequela                          | Diagnosis     | ICD-10-CM |
| S66.399  | Other injury of extensor muscle, fascia and tendon of unspecified finger at wrist and hand level                             | Diagnosis     | ICD-10-CM |
| S66.399A | Other injury of extensor muscle, fascia and tendon of unspecified finger at wrist and hand level, initial encounter          | Diagnosis     | ICD-10-CM |
| S66.399D | Other injury of extensor muscle, fascia and tendon of unspecified finger at wrist and hand level, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S66.399S | Other injury of extensor muscle, fascia and tendon of unspecified finger at wrist and hand level, sequela                    | Diagnosis     | ICD-10-CM |
| S66.4    | Injury of intrinsic muscle, fascia and tendon of thumb at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S66.40   | Unspecified injury of intrinsic muscle, fascia and tendon of thumb at wrist and hand level                                   | Diagnosis     | ICD-10-CM |
| S66.401  | Unspecified injury of intrinsic muscle, fascia and tendon of right thumb at wrist and hand level                             | Diagnosis     | ICD-10-CM |
| S66.401A | Unspecified injury of intrinsic muscle, fascia and tendon of right thumb at wrist and hand level, initial encounter          | Diagnosis     | ICD-10-CM |
| S66.401D | Unspecified injury of intrinsic muscle, fascia and tendon of right thumb at wrist and hand level, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S66.401S | Unspecified injury of intrinsic muscle, fascia and tendon of right thumb at wrist and hand level, sequela                    | Diagnosis     | ICD-10-CM |
| S66.402  | Unspecified injury of intrinsic muscle, fascia and tendon of left thumb at wrist and hand level                              | Diagnosis     | ICD-10-CM |
| S66.402A | Unspecified injury of intrinsic muscle, fascia and tendon of left thumb at wrist and hand level, initial encounter           | Diagnosis     | ICD-10-CM |
| S66.402D | Unspecified injury of intrinsic muscle, fascia and tendon of left thumb at wrist and hand level, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S66.402S | Unspecified injury of intrinsic muscle, fascia and tendon of left thumb at wrist and hand level, sequela                     | Diagnosis     | ICD-10-CM |
| S66.409  | Unspecified injury of intrinsic muscle, fascia and tendon of unspecified thumb at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.409A | Unspecified injury of intrinsic muscle, fascia and tendon of unspecified thumb at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.409D | Unspecified injury of intrinsic muscle, fascia and tendon of unspecified thumb at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.409S | Unspecified injury of intrinsic muscle, fascia and tendon of unspecified thumb at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.41   | Strain of intrinsic muscle, fascia and tendon of thumb at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S66.411  | Strain of intrinsic muscle, fascia and tendon of right thumb at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S66.411A | Strain of intrinsic muscle, fascia and tendon of right thumb at wrist and hand level, initial encounter                      | Diagnosis     | ICD-10-CM |
| S66.411D | Strain of intrinsic muscle, fascia and tendon of right thumb at wrist and hand level, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S66.411S | Strain of intrinsic muscle, fascia and tendon of right thumb at wrist and hand level, sequela                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S66.412  | Strain of intrinsic muscle, fascia and tendon of left thumb at wrist and hand level  | Diagnosis     | ICD-10-CM |
| S66.412A | Strain of intrinsic muscle, fascia and tendon of left thumb at wrist and hand level, initial encounter                     | Diagnosis     | ICD-10-CM |
| S66.412D | Strain of intrinsic muscle, fascia and tendon of left thumb at wrist and hand level, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S66.412S | Strain of intrinsic muscle, fascia and tendon of left thumb at wrist and hand level, sequela                               | Diagnosis     | ICD-10-CM |
| S66.419  | Strain of intrinsic muscle, fascia and tendon of unspecified thumb at wrist and hand level                                 | Diagnosis     | ICD-10-CM |
| S66.419A | Strain of intrinsic muscle, fascia and tendon of unspecified thumb at wrist and hand level, initial encounter              | Diagnosis     | ICD-10-CM |
| S66.419D | Strain of intrinsic muscle, fascia and tendon of unspecified thumb at wrist and hand level, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S66.419S | Strain of intrinsic muscle, fascia and tendon of unspecified thumb at wrist and hand level, sequela                        | Diagnosis     | ICD-10-CM |
| S66.42   | Laceration of intrinsic muscle, fascia and tendon of thumb at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S66.421  | Laceration of intrinsic muscle, fascia and tendon of right thumb at wrist and hand level                                   | Diagnosis     | ICD-10-CM |
| S66.421A | Laceration of intrinsic muscle, fascia and tendon of right thumb at wrist and hand level, initial encounter                | Diagnosis     | ICD-10-CM |
| S66.421D | Laceration of intrinsic muscle, fascia and tendon of right thumb at wrist and hand level, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S66.421S | Laceration of intrinsic muscle, fascia and tendon of right thumb at wrist and hand level, sequela                          | Diagnosis     | ICD-10-CM |
| S66.422  | Laceration of intrinsic muscle, fascia and tendon of left thumb at wrist and hand level                                    | Diagnosis     | ICD-10-CM |
| S66.422A | Laceration of intrinsic muscle, fascia and tendon of left thumb at wrist and hand level, initial encounter                 | Diagnosis     | ICD-10-CM |
| S66.422D | Laceration of intrinsic muscle, fascia and tendon of left thumb at wrist and hand level, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S66.422S | Laceration of intrinsic muscle, fascia and tendon of left thumb at wrist and hand level, sequela                           | Diagnosis     | ICD-10-CM |
| S66.429  | Laceration of intrinsic muscle, fascia and tendon of unspecified thumb at wrist and hand level                             | Diagnosis     | ICD-10-CM |
| S66.429A | Laceration of intrinsic muscle, fascia and tendon of unspecified thumb at wrist and hand level, initial encounter          | Diagnosis     | ICD-10-CM |
| S66.429D | Laceration of intrinsic muscle, fascia and tendon of unspecified thumb at wrist and hand level, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S66.429S | Laceration of intrinsic muscle, fascia and tendon of unspecified thumb at wrist and hand level, sequela                    | Diagnosis     | ICD-10-CM |
| S66.49   | Other specified injury of intrinsic muscle, fascia and tendon of thumb at wrist and hand level                             | Diagnosis     | ICD-10-CM |
| S66.491  | Other specified injury of intrinsic muscle, fascia and tendon of right thumb at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.491A | Other specified injury of intrinsic muscle, fascia and tendon of right thumb at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.491D | Other specified injury of intrinsic muscle, fascia and tendon of right thumb at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.491S | Other specified injury of intrinsic muscle, fascia and tendon of right thumb at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.492  | Other specified injury of intrinsic muscle, fascia and tendon of left thumb at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.492A | Other specified injury of intrinsic muscle, fascia and tendon of left thumb at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S66.492D | Other specified injury of intrinsic muscle, fascia and tendon of left thumb at wrist and hand level, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S66.492S | Other specified injury of intrinsic muscle, fascia and tendon of left thumb at wrist and hand level, sequela                     | Diagnosis     | ICD-10-CM |
| S66.499  | Other specified injury of intrinsic muscle, fascia and tendon of unspecified thumb at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.499A | Other specified injury of intrinsic muscle, fascia and tendon of unspecified thumb at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.499D | Other specified injury of intrinsic muscle, fascia and tendon of unspecified thumb at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.499S | Other specified injury of intrinsic muscle, fascia and tendon of unspecified thumb at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.5    | Injury of intrinsic muscle, fascia and tendon of other and unspecified finger at wrist and hand level                            | Diagnosis     | ICD-10-CM |
| S66.50   | Unspecified injury of intrinsic muscle, fascia and tendon of other and unspecified finger at wrist and hand level                | Diagnosis     | ICD-10-CM |
| S66.500  | Unspecified injury of intrinsic muscle, fascia and tendon of right index finger at wrist and hand level                          | Diagnosis     | ICD-10-CM |
| S66.500A | Unspecified injury of intrinsic muscle, fascia and tendon of right index finger at wrist and hand level, initial encounter       | Diagnosis     | ICD-10-CM |
| S66.500D | Unspecified injury of intrinsic muscle, fascia and tendon of right index finger at wrist and hand level, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S66.500S | Unspecified injury of intrinsic muscle, fascia and tendon of right index finger at wrist and hand level, sequela                 | Diagnosis     | ICD-10-CM |
| S66.501  | Unspecified injury of intrinsic muscle, fascia and tendon of left index finger at wrist and hand level                           | Diagnosis     | ICD-10-CM |
| S66.501A | Unspecified injury of intrinsic muscle, fascia and tendon of left index finger at wrist and hand level, initial encounter        | Diagnosis     | ICD-10-CM |
| S66.501D | Unspecified injury of intrinsic muscle, fascia and tendon of left index finger at wrist and hand level, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S66.501S | Unspecified injury of intrinsic muscle, fascia and tendon of left index finger at wrist and hand level, sequela                  | Diagnosis     | ICD-10-CM |
| S66.502  | Unspecified injury of intrinsic muscle, fascia and tendon of right middle finger at wrist and hand level                         | Diagnosis     | ICD-10-CM |
| S66.502A | Unspecified injury of intrinsic muscle, fascia and tendon of right middle finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.502D | Unspecified injury of intrinsic muscle, fascia and tendon of right middle finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S66.502S | Unspecified injury of intrinsic muscle, fascia and tendon of right middle finger at wrist and hand level, sequela                | Diagnosis     | ICD-10-CM |
| S66.503  | Unspecified injury of intrinsic muscle, fascia and tendon of left middle finger at wrist and hand level                          | Diagnosis     | ICD-10-CM |
| S66.503A | Unspecified injury of intrinsic muscle, fascia and tendon of left middle finger at wrist and hand level, initial encounter       | Diagnosis     | ICD-10-CM |
| S66.503D | Unspecified injury of intrinsic muscle, fascia and tendon of left middle finger at wrist and hand level, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S66.503S | Unspecified injury of intrinsic muscle, fascia and tendon of left middle finger at wrist and hand level, sequela                 | Diagnosis     | ICD-10-CM |
| S66.504  | Unspecified injury of intrinsic muscle, fascia and tendon of right ring finger at wrist and hand level                           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S66.504A | Unspecified injury of intrinsic muscle, fascia and tendon of right ring finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.504D | Unspecified injury of intrinsic muscle, fascia and tendon of right ring finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S66.504S | Unspecified injury of intrinsic muscle, fascia and tendon of right ring finger at wrist and hand level, sequela                | Diagnosis     | ICD-10-CM |
| S66.505  | Unspecified injury of intrinsic muscle, fascia and tendon of left ring finger at wrist and hand level                          | Diagnosis     | ICD-10-CM |
| S66.505A | Unspecified injury of intrinsic muscle, fascia and tendon of left ring finger at wrist and hand level, initial encounter       | Diagnosis     | ICD-10-CM |
| S66.505D | Unspecified injury of intrinsic muscle, fascia and tendon of left ring finger at wrist and hand level, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S66.505S | Unspecified injury of intrinsic muscle, fascia and tendon of left ring finger at wrist and hand level, sequela                 | Diagnosis     | ICD-10-CM |
| S66.506  | Unspecified injury of intrinsic muscle, fascia and tendon of right little finger at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.506A | Unspecified injury of intrinsic muscle, fascia and tendon of right little finger at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.506D | Unspecified injury of intrinsic muscle, fascia and tendon of right little finger at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.506S | Unspecified injury of intrinsic muscle, fascia and tendon of right little finger at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.507  | Unspecified injury of intrinsic muscle, fascia and tendon of left little finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.507A | Unspecified injury of intrinsic muscle, fascia and tendon of left little finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.507D | Unspecified injury of intrinsic muscle, fascia and tendon of left little finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.507S | Unspecified injury of intrinsic muscle, fascia and tendon of left little finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.508  | Unspecified injury of intrinsic muscle, fascia and tendon of other finger at wrist and hand level                              | Diagnosis     | ICD-10-CM |
| S66.508A | Unspecified injury of intrinsic muscle, fascia and tendon of other finger at wrist and hand level, initial encounter           | Diagnosis     | ICD-10-CM |
| S66.508D | Unspecified injury of intrinsic muscle, fascia and tendon of other finger at wrist and hand level, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S66.508S | Unspecified injury of intrinsic muscle, fascia and tendon of other finger at wrist and hand level, sequela                     | Diagnosis     | ICD-10-CM |
| S66.509  | Unspecified injury of intrinsic muscle, fascia and tendon of unspecified finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.509A | Unspecified injury of intrinsic muscle, fascia and tendon of unspecified finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.509D | Unspecified injury of intrinsic muscle, fascia and tendon of unspecified finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.509S | Unspecified injury of intrinsic muscle, fascia and tendon of unspecified finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.51   | Strain of intrinsic muscle, fascia and tendon of other and unspecified finger at wrist and hand level                          | Diagnosis     | ICD-10-CM |
| S66.510  | Strain of intrinsic muscle, fascia and tendon of right index finger at wrist and hand level                                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S66.510A | Strain of intrinsic muscle, fascia and tendon of right index finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.510D | Strain of intrinsic muscle, fascia and tendon of right index finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.510S | Strain of intrinsic muscle, fascia and tendon of right index finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.511  | Strain of intrinsic muscle, fascia and tendon of left index finger at wrist and hand level                         | Diagnosis     | ICD-10-CM |
| S66.511A | Strain of intrinsic muscle, fascia and tendon of left index finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.511D | Strain of intrinsic muscle, fascia and tendon of left index finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S66.511S | Strain of intrinsic muscle, fascia and tendon of left index finger at wrist and hand level, sequela                | Diagnosis     | ICD-10-CM |
| S66.512  | Strain of intrinsic muscle, fascia and tendon of right middle finger at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.512A | Strain of intrinsic muscle, fascia and tendon of right middle finger at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.512D | Strain of intrinsic muscle, fascia and tendon of right middle finger at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.512S | Strain of intrinsic muscle, fascia and tendon of right middle finger at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.513  | Strain of intrinsic muscle, fascia and tendon of left middle finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.513A | Strain of intrinsic muscle, fascia and tendon of left middle finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.513D | Strain of intrinsic muscle, fascia and tendon of left middle finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.513S | Strain of intrinsic muscle, fascia and tendon of left middle finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.514  | Strain of intrinsic muscle, fascia and tendon of right ring finger at wrist and hand level                         | Diagnosis     | ICD-10-CM |
| S66.514A | Strain of intrinsic muscle, fascia and tendon of right ring finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.514D | Strain of intrinsic muscle, fascia and tendon of right ring finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S66.514S | Strain of intrinsic muscle, fascia and tendon of right ring finger at wrist and hand level, sequela                | Diagnosis     | ICD-10-CM |
| S66.515  | Strain of intrinsic muscle, fascia and tendon of left ring finger at wrist and hand level                          | Diagnosis     | ICD-10-CM |
| S66.515A | Strain of intrinsic muscle, fascia and tendon of left ring finger at wrist and hand level, initial encounter       | Diagnosis     | ICD-10-CM |
| S66.515D | Strain of intrinsic muscle, fascia and tendon of left ring finger at wrist and hand level, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S66.515S | Strain of intrinsic muscle, fascia and tendon of left ring finger at wrist and hand level, sequela                 | Diagnosis     | ICD-10-CM |
| S66.516  | Strain of intrinsic muscle, fascia and tendon of right little finger at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.516A | Strain of intrinsic muscle, fascia and tendon of right little finger at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.516D | Strain of intrinsic muscle, fascia and tendon of right little finger at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.516S | Strain of intrinsic muscle, fascia and tendon of right little finger at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.517  | Strain of intrinsic muscle, fascia and tendon of left little finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S66.517A | Strain of intrinsic muscle, fascia and tendon of left little finger at wrist and hand level, initial encounter         | Diagnosis     | ICD-10-CM |
| S66.517D | Strain of intrinsic muscle, fascia and tendon of left little finger at wrist and hand level, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S66.517S | Strain of intrinsic muscle, fascia and tendon of left little finger at wrist and hand level, sequela                   | Diagnosis     | ICD-10-CM |
| S66.518  | Strain of intrinsic muscle, fascia and tendon of other finger at wrist and hand level                                  | Diagnosis     | ICD-10-CM |
| S66.518A | Strain of intrinsic muscle, fascia and tendon of other finger at wrist and hand level, initial encounter               | Diagnosis     | ICD-10-CM |
| S66.518D | Strain of intrinsic muscle, fascia and tendon of other finger at wrist and hand level, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S66.518S | Strain of intrinsic muscle, fascia and tendon of other finger at wrist and hand level, sequela                         | Diagnosis     | ICD-10-CM |
| S66.519  | Strain of intrinsic muscle, fascia and tendon of unspecified finger at wrist and hand level                            | Diagnosis     | ICD-10-CM |
| S66.519A | Strain of intrinsic muscle, fascia and tendon of unspecified finger at wrist and hand level, initial encounter         | Diagnosis     | ICD-10-CM |
| S66.519D | Strain of intrinsic muscle, fascia and tendon of unspecified finger at wrist and hand level, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S66.519S | Strain of intrinsic muscle, fascia and tendon of unspecified finger at wrist and hand level, sequela                   | Diagnosis     | ICD-10-CM |
| S66.52   | Laceration of intrinsic muscle, fascia and tendon of other and unspecified finger at wrist and hand level              | Diagnosis     | ICD-10-CM |
| S66.520  | Laceration of intrinsic muscle, fascia and tendon of right index finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.520A | Laceration of intrinsic muscle, fascia and tendon of right index finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.520D | Laceration of intrinsic muscle, fascia and tendon of right index finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.520S | Laceration of intrinsic muscle, fascia and tendon of right index finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.521  | Laceration of intrinsic muscle, fascia and tendon of left index finger at wrist and hand level                         | Diagnosis     | ICD-10-CM |
| S66.521A | Laceration of intrinsic muscle, fascia and tendon of left index finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.521D | Laceration of intrinsic muscle, fascia and tendon of left index finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S66.521S | Laceration of intrinsic muscle, fascia and tendon of left index finger at wrist and hand level, sequela                | Diagnosis     | ICD-10-CM |
| S66.522  | Laceration of intrinsic muscle, fascia and tendon of right middle finger at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.522A | Laceration of intrinsic muscle, fascia and tendon of right middle finger at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.522D | Laceration of intrinsic muscle, fascia and tendon of right middle finger at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.522S | Laceration of intrinsic muscle, fascia and tendon of right middle finger at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.523  | Laceration of intrinsic muscle, fascia and tendon of left middle finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.523A | Laceration of intrinsic muscle, fascia and tendon of left middle finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.523D | Laceration of intrinsic muscle, fascia and tendon of left middle finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S66.523S | Laceration of intrinsic muscle, fascia and tendon of left middle finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.524  | Laceration of intrinsic muscle, fascia and tendon of right ring finger at wrist and hand level                         | Diagnosis     | ICD-10-CM |
| S66.524A | Laceration of intrinsic muscle, fascia and tendon of right ring finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.524D | Laceration of intrinsic muscle, fascia and tendon of right ring finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S66.524S | Laceration of intrinsic muscle, fascia and tendon of right ring finger at wrist and hand level, sequela                | Diagnosis     | ICD-10-CM |
| S66.525  | Laceration of intrinsic muscle, fascia and tendon of left ring finger at wrist and hand level                          | Diagnosis     | ICD-10-CM |
| S66.525A | Laceration of intrinsic muscle, fascia and tendon of left ring finger at wrist and hand level, initial encounter       | Diagnosis     | ICD-10-CM |
| S66.525D | Laceration of intrinsic muscle, fascia and tendon of left ring finger at wrist and hand level, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S66.525S | Laceration of intrinsic muscle, fascia and tendon of left ring finger at wrist and hand level, sequela                 | Diagnosis     | ICD-10-CM |
| S66.526  | Laceration of intrinsic muscle, fascia and tendon of right little finger at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.526A | Laceration of intrinsic muscle, fascia and tendon of right little finger at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.526D | Laceration of intrinsic muscle, fascia and tendon of right little finger at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.526S | Laceration of intrinsic muscle, fascia and tendon of right little finger at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.527  | Laceration of intrinsic muscle, fascia and tendon of left little finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.527A | Laceration of intrinsic muscle, fascia and tendon of left little finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.527D | Laceration of intrinsic muscle, fascia and tendon of left little finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.527S | Laceration of intrinsic muscle, fascia and tendon of left little finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.528  | Laceration of intrinsic muscle, fascia and tendon of other finger at wrist and hand level                              | Diagnosis     | ICD-10-CM |
| S66.528A | Laceration of intrinsic muscle, fascia and tendon of other finger at wrist and hand level, initial encounter           | Diagnosis     | ICD-10-CM |
| S66.528D | Laceration of intrinsic muscle, fascia and tendon of other finger at wrist and hand level, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S66.528S | Laceration of intrinsic muscle, fascia and tendon of other finger at wrist and hand level, sequela                     | Diagnosis     | ICD-10-CM |
| S66.529  | Laceration of intrinsic muscle, fascia and tendon of unspecified finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.529A | Laceration of intrinsic muscle, fascia and tendon of unspecified finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.529D | Laceration of intrinsic muscle, fascia and tendon of unspecified finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.529S | Laceration of intrinsic muscle, fascia and tendon of unspecified finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.59   | Other injury of intrinsic muscle, fascia and tendon of other and unspecified finger at wrist and hand level            | Diagnosis     | ICD-10-CM |
| S66.590  | Other injury of intrinsic muscle, fascia and tendon of right index finger at wrist and hand level                      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S66.590A | Other injury of intrinsic muscle, fascia and tendon of right index finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.590D | Other injury of intrinsic muscle, fascia and tendon of right index finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.590S | Other injury of intrinsic muscle, fascia and tendon of right index finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.591  | Other injury of intrinsic muscle, fascia and tendon of left index finger at wrist and hand level                         | Diagnosis     | ICD-10-CM |
| S66.591A | Other injury of intrinsic muscle, fascia and tendon of left index finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.591D | Other injury of intrinsic muscle, fascia and tendon of left index finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S66.591S | Other injury of intrinsic muscle, fascia and tendon of left index finger at wrist and hand level, sequela                | Diagnosis     | ICD-10-CM |
| S66.592  | Other injury of intrinsic muscle, fascia and tendon of right middle finger at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.592A | Other injury of intrinsic muscle, fascia and tendon of right middle finger at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.592D | Other injury of intrinsic muscle, fascia and tendon of right middle finger at wrist and hand level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.592S | Other injury of intrinsic muscle, fascia and tendon of right middle finger at wrist and hand level, sequela              | Diagnosis     | ICD-10-CM |
| S66.593  | Other injury of intrinsic muscle, fascia and tendon of left middle finger at wrist and hand level                        | Diagnosis     | ICD-10-CM |
| S66.593A | Other injury of intrinsic muscle, fascia and tendon of left middle finger at wrist and hand level, initial encounter     | Diagnosis     | ICD-10-CM |
| S66.593D | Other injury of intrinsic muscle, fascia and tendon of left middle finger at wrist and hand level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S66.593S | Other injury of intrinsic muscle, fascia and tendon of left middle finger at wrist and hand level, sequela               | Diagnosis     | ICD-10-CM |
| S66.594  | Other injury of intrinsic muscle, fascia and tendon of right ring finger at wrist and hand level                         | Diagnosis     | ICD-10-CM |
| S66.594A | Other injury of intrinsic muscle, fascia and tendon of right ring finger at wrist and hand level, initial encounter      | Diagnosis     | ICD-10-CM |
| S66.594D | Other injury of intrinsic muscle, fascia and tendon of right ring finger at wrist and hand level, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S66.594S | Other injury of intrinsic muscle, fascia and tendon of right ring finger at wrist and hand level, sequela                | Diagnosis     | ICD-10-CM |
| S66.595  | Other injury of intrinsic muscle, fascia and tendon of left ring finger at wrist and hand level                          | Diagnosis     | ICD-10-CM |
| S66.595A | Other injury of intrinsic muscle, fascia and tendon of left ring finger at wrist and hand level, initial encounter       | Diagnosis     | ICD-10-CM |
| S66.595D | Other injury of intrinsic muscle, fascia and tendon of left ring finger at wrist and hand level, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S66.595S | Other injury of intrinsic muscle, fascia and tendon of left ring finger at wrist and hand level, sequela                 | Diagnosis     | ICD-10-CM |
| S66.596  | Other injury of intrinsic muscle, fascia and tendon of right little finger at wrist and hand level                       | Diagnosis     | ICD-10-CM |
| S66.596A | Other injury of intrinsic muscle, fascia and tendon of right little finger at wrist and hand level, initial encounter    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S66.596D | Other injury of intrinsic muscle, fascia and tendon of right little finger at wrist and hand level, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S66.596S | Other injury of intrinsic muscle, fascia and tendon of right little finger at wrist and hand level, sequela                       | Diagnosis     | ICD-10-CM |
| S66.597  | Other injury of intrinsic muscle, fascia and tendon of left little finger at wrist and hand level                                 | Diagnosis     | ICD-10-CM |
| S66.597A | Other injury of intrinsic muscle, fascia and tendon of left little finger at wrist and hand level, initial encounter              | Diagnosis     | ICD-10-CM |
| S66.597D | Other injury of intrinsic muscle, fascia and tendon of left little finger at wrist and hand level, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S66.597S | Other injury of intrinsic muscle, fascia and tendon of left little finger at wrist and hand level, sequela                        | Diagnosis     | ICD-10-CM |
| S66.598  | Other injury of intrinsic muscle, fascia and tendon of other finger at wrist and hand level                                       | Diagnosis     | ICD-10-CM |
| S66.598A | Other injury of intrinsic muscle, fascia and tendon of other finger at wrist and hand level, initial encounter                    | Diagnosis     | ICD-10-CM |
| S66.598D | Other injury of intrinsic muscle, fascia and tendon of other finger at wrist and hand level, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S66.598S | Other injury of intrinsic muscle, fascia and tendon of other finger at wrist and hand level, sequela                              | Diagnosis     | ICD-10-CM |
| S66.599  | Other injury of intrinsic muscle, fascia and tendon of unspecified finger at wrist and hand level                                 | Diagnosis     | ICD-10-CM |
| S66.599A | Other injury of intrinsic muscle, fascia and tendon of unspecified finger at wrist and hand level, initial encounter              | Diagnosis     | ICD-10-CM |
| S66.599D | Other injury of intrinsic muscle, fascia and tendon of unspecified finger at wrist and hand level, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S66.599S | Other injury of intrinsic muscle, fascia and tendon of unspecified finger at wrist and hand level, sequela                        | Diagnosis     | ICD-10-CM |
| S66.8    | Injury of other specified muscles, fascia and tendons at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S66.80   | Unspecified injury of other specified muscles, fascia and tendons at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S66.801  | Unspecified injury of other specified muscles, fascia and tendons at wrist and hand level, right hand                             | Diagnosis     | ICD-10-CM |
| S66.801A | Unspecified injury of other specified muscles, fascia and tendons at wrist and hand level, right hand, initial encounter          | Diagnosis     | ICD-10-CM |
| S66.801D | Unspecified injury of other specified muscles, fascia and tendons at wrist and hand level, right hand, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S66.801S | Unspecified injury of other specified muscles, fascia and tendons at wrist and hand level, right hand, sequela                    | Diagnosis     | ICD-10-CM |
| S66.802  | Unspecified injury of other specified muscles, fascia and tendons at wrist and hand level, left hand                              | Diagnosis     | ICD-10-CM |
| S66.802A | Unspecified injury of other specified muscles, fascia and tendons at wrist and hand level, left hand, initial encounter           | Diagnosis     | ICD-10-CM |
| S66.802D | Unspecified injury of other specified muscles, fascia and tendons at wrist and hand level, left hand, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S66.802S | Unspecified injury of other specified muscles, fascia and tendons at wrist and hand level, left hand, sequela                     | Diagnosis     | ICD-10-CM |
| S66.809  | Unspecified injury of other specified muscles, fascia and tendons at wrist and hand level, unspecified hand                       | Diagnosis     | ICD-10-CM |
| S66.809A | Unspecified injury of other specified muscles, fascia and tendons at wrist and hand level, unspecified hand, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.809D | Unspecified injury of other specified muscles, fascia and tendons at wrist and hand level, unspecified hand, subsequent encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S66.809S | Unspecified injury of other specified muscles, fascia and tendons at wrist and hand level, unspecified hand, sequela      | Diagnosis     | ICD-10-CM |
| S66.81   | Strain of other specified muscles, fascia and tendons at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S66.811  | Strain of other specified muscles, fascia and tendons at wrist and hand level, right hand                                 | Diagnosis     | ICD-10-CM |
| S66.811A | Strain of other specified muscles, fascia and tendons at wrist and hand level, right hand, initial encounter              | Diagnosis     | ICD-10-CM |
| S66.811D | Strain of other specified muscles, fascia and tendons at wrist and hand level, right hand, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S66.811S | Strain of other specified muscles, fascia and tendons at wrist and hand level, right hand, sequela                        | Diagnosis     | ICD-10-CM |
| S66.812  | Strain of other specified muscles, fascia and tendons at wrist and hand level, left hand                                  | Diagnosis     | ICD-10-CM |
| S66.812A | Strain of other specified muscles, fascia and tendons at wrist and hand level, left hand, initial encounter               | Diagnosis     | ICD-10-CM |
| S66.812D | Strain of other specified muscles, fascia and tendons at wrist and hand level, left hand, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S66.812S | Strain of other specified muscles, fascia and tendons at wrist and hand level, left hand, sequela                         | Diagnosis     | ICD-10-CM |
| S66.819  | Strain of other specified muscles, fascia and tendons at wrist and hand level, unspecified hand                           | Diagnosis     | ICD-10-CM |
| S66.819A | Strain of other specified muscles, fascia and tendons at wrist and hand level, unspecified hand, initial encounter        | Diagnosis     | ICD-10-CM |
| S66.819D | Strain of other specified muscles, fascia and tendons at wrist and hand level, unspecified hand, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S66.819S | Strain of other specified muscles, fascia and tendons at wrist and hand level, unspecified hand, sequela                  | Diagnosis     | ICD-10-CM |
| S66.82   | Laceration of other specified muscles, fascia and tendons at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S66.821  | Laceration of other specified muscles, fascia and tendons at wrist and hand level, right hand                             | Diagnosis     | ICD-10-CM |
| S66.821A | Laceration of other specified muscles, fascia and tendons at wrist and hand level, right hand, initial encounter          | Diagnosis     | ICD-10-CM |
| S66.821D | Laceration of other specified muscles, fascia and tendons at wrist and hand level, right hand, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S66.821S | Laceration of other specified muscles, fascia and tendons at wrist and hand level, right hand, sequela                    | Diagnosis     | ICD-10-CM |
| S66.822  | Laceration of other specified muscles, fascia and tendons at wrist and hand level, left hand                              | Diagnosis     | ICD-10-CM |
| S66.822A | Laceration of other specified muscles, fascia and tendons at wrist and hand level, left hand, initial encounter           | Diagnosis     | ICD-10-CM |
| S66.822D | Laceration of other specified muscles, fascia and tendons at wrist and hand level, left hand, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S66.822S | Laceration of other specified muscles, fascia and tendons at wrist and hand level, left hand, sequela                     | Diagnosis     | ICD-10-CM |
| S66.829  | Laceration of other specified muscles, fascia and tendons at wrist and hand level, unspecified hand                       | Diagnosis     | ICD-10-CM |
| S66.829A | Laceration of other specified muscles, fascia and tendons at wrist and hand level, unspecified hand, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.829D | Laceration of other specified muscles, fascia and tendons at wrist and hand level, unspecified hand, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.829S | Laceration of other specified muscles, fascia and tendons at wrist and hand level, unspecified hand, sequela              | Diagnosis     | ICD-10-CM |
| S66.89   | Other injury of other specified muscles, fascia and tendons at wrist and hand level                                       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S66.891  | Other injury of other specified muscles, fascia and tendons at wrist and hand level, right hand                             | Diagnosis     | ICD-10-CM |
| S66.891A | Other injury of other specified muscles, fascia and tendons at wrist and hand level, right hand, initial encounter          | Diagnosis     | ICD-10-CM |
| S66.891D | Other injury of other specified muscles, fascia and tendons at wrist and hand level, right hand, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S66.891S | Other injury of other specified muscles, fascia and tendons at wrist and hand level, right hand, sequela                    | Diagnosis     | ICD-10-CM |
| S66.892  | Other injury of other specified muscles, fascia and tendons at wrist and hand level, left hand                              | Diagnosis     | ICD-10-CM |
| S66.892A | Other injury of other specified muscles, fascia and tendons at wrist and hand level, left hand, initial encounter           | Diagnosis     | ICD-10-CM |
| S66.892D | Other injury of other specified muscles, fascia and tendons at wrist and hand level, left hand, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S66.892S | Other injury of other specified muscles, fascia and tendons at wrist and hand level, left hand, sequela                     | Diagnosis     | ICD-10-CM |
| S66.899  | Other injury of other specified muscles, fascia and tendons at wrist and hand level, unspecified hand                       | Diagnosis     | ICD-10-CM |
| S66.899A | Other injury of other specified muscles, fascia and tendons at wrist and hand level, unspecified hand, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.899D | Other injury of other specified muscles, fascia and tendons at wrist and hand level, unspecified hand, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.899S | Other injury of other specified muscles, fascia and tendons at wrist and hand level, unspecified hand, sequela              | Diagnosis     | ICD-10-CM |
| S66.9    | Injury of unspecified muscle, fascia and tendon at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S66.90   | Unspecified injury of unspecified muscle, fascia and tendon at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S66.901  | Unspecified injury of unspecified muscle, fascia and tendon at wrist and hand level, right hand                             | Diagnosis     | ICD-10-CM |
| S66.901A | Unspecified injury of unspecified muscle, fascia and tendon at wrist and hand level, right hand, initial encounter          | Diagnosis     | ICD-10-CM |
| S66.901D | Unspecified injury of unspecified muscle, fascia and tendon at wrist and hand level, right hand, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S66.901S | Unspecified injury of unspecified muscle, fascia and tendon at wrist and hand level, right hand, sequela                    | Diagnosis     | ICD-10-CM |
| S66.902  | Unspecified injury of unspecified muscle, fascia and tendon at wrist and hand level, left hand                              | Diagnosis     | ICD-10-CM |
| S66.902A | Unspecified injury of unspecified muscle, fascia and tendon at wrist and hand level, left hand, initial encounter           | Diagnosis     | ICD-10-CM |
| S66.902D | Unspecified injury of unspecified muscle, fascia and tendon at wrist and hand level, left hand, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S66.902S | Unspecified injury of unspecified muscle, fascia and tendon at wrist and hand level, left hand, sequela                     | Diagnosis     | ICD-10-CM |
| S66.909  | Unspecified injury of unspecified muscle, fascia and tendon at wrist and hand level, unspecified hand                       | Diagnosis     | ICD-10-CM |
| S66.909A | Unspecified injury of unspecified muscle, fascia and tendon at wrist and hand level, unspecified hand, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.909D | Unspecified injury of unspecified muscle, fascia and tendon at wrist and hand level, unspecified hand, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.909S | Unspecified injury of unspecified muscle, fascia and tendon at wrist and hand level, unspecified hand, sequela              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S66.91   | Strain of unspecified muscle, fascia and tendon at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S66.911  | Strain of unspecified muscle, fascia and tendon at wrist and hand level, right hand                                 | Diagnosis     | ICD-10-CM |
| S66.911A | Strain of unspecified muscle, fascia and tendon at wrist and hand level, right hand, initial encounter              | Diagnosis     | ICD-10-CM |
| S66.911D | Strain of unspecified muscle, fascia and tendon at wrist and hand level, right hand, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S66.911S | Strain of unspecified muscle, fascia and tendon at wrist and hand level, right hand, sequela                        | Diagnosis     | ICD-10-CM |
| S66.912  | Strain of unspecified muscle, fascia and tendon at wrist and hand level, left hand                                  | Diagnosis     | ICD-10-CM |
| S66.912A | Strain of unspecified muscle, fascia and tendon at wrist and hand level, left hand, initial encounter               | Diagnosis     | ICD-10-CM |
| S66.912D | Strain of unspecified muscle, fascia and tendon at wrist and hand level, left hand, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S66.912S | Strain of unspecified muscle, fascia and tendon at wrist and hand level, left hand, sequela                         | Diagnosis     | ICD-10-CM |
| S66.919  | Strain of unspecified muscle, fascia and tendon at wrist and hand level, unspecified hand                           | Diagnosis     | ICD-10-CM |
| S66.919A | Strain of unspecified muscle, fascia and tendon at wrist and hand level, unspecified hand, initial encounter        | Diagnosis     | ICD-10-CM |
| S66.919D | Strain of unspecified muscle, fascia and tendon at wrist and hand level, unspecified hand, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S66.919S | Strain of unspecified muscle, fascia and tendon at wrist and hand level, unspecified hand, sequela                  | Diagnosis     | ICD-10-CM |
| S66.92   | Laceration of unspecified muscle, fascia and tendon at wrist and hand level   | Diagnosis     | ICD-10-CM |
| S66.921  | Laceration of unspecified muscle, fascia and tendon at wrist and hand level, right hand                             | Diagnosis     | ICD-10-CM |
| S66.921A | Laceration of unspecified muscle, fascia and tendon at wrist and hand level, right hand, initial encounter          | Diagnosis     | ICD-10-CM |
| S66.921D | Laceration of unspecified muscle, fascia and tendon at wrist and hand level, right hand, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S66.921S | Laceration of unspecified muscle, fascia and tendon at wrist and hand level, right hand, sequela                    | Diagnosis     | ICD-10-CM |
| S66.922  | Laceration of unspecified muscle, fascia and tendon at wrist and hand level, left hand                              | Diagnosis     | ICD-10-CM |
| S66.922A | Laceration of unspecified muscle, fascia and tendon at wrist and hand level, left hand, initial encounter           | Diagnosis     | ICD-10-CM |
| S66.922D | Laceration of unspecified muscle, fascia and tendon at wrist and hand level, left hand, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S66.922S | Laceration of unspecified muscle, fascia and tendon at wrist and hand level, left hand, sequela                     | Diagnosis     | ICD-10-CM |
| S66.929  | Laceration of unspecified muscle, fascia and tendon at wrist and hand level, unspecified hand                       | Diagnosis     | ICD-10-CM |
| S66.929A | Laceration of unspecified muscle, fascia and tendon at wrist and hand level, unspecified hand, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.929D | Laceration of unspecified muscle, fascia and tendon at wrist and hand level, unspecified hand, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.929S | Laceration of unspecified muscle, fascia and tendon at wrist and hand level, unspecified hand, sequela              | Diagnosis     | ICD-10-CM |
| S66.99   | Other injury of unspecified muscle, fascia and tendon at wrist and hand level                                       | Diagnosis     | ICD-10-CM |
| S66.991  | Other injury of unspecified muscle, fascia and tendon at wrist and hand level, right hand                           | Diagnosis     | ICD-10-CM |
| S66.991A | Other injury of unspecified muscle, fascia and tendon at wrist and hand level, right hand, initial encounter        | Diagnosis     | ICD-10-CM |
| S66.991D | Other injury of unspecified muscle, fascia and tendon at wrist and hand level, right hand, subsequent encounter     | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S66.991S | Other injury of unspecified muscle, fascia and tendon at wrist and hand level, right hand, sequela                    | Diagnosis     | ICD-10-CM |
| S66.992  | Other injury of unspecified muscle, fascia and tendon at wrist and hand level, left hand                              | Diagnosis     | ICD-10-CM |
| S66.992A | Other injury of unspecified muscle, fascia and tendon at wrist and hand level, left hand, initial encounter           | Diagnosis     | ICD-10-CM |
| S66.992D | Other injury of unspecified muscle, fascia and tendon at wrist and hand level, left hand, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S66.992S | Other injury of unspecified muscle, fascia and tendon at wrist and hand level, left hand, sequela                     | Diagnosis     | ICD-10-CM |
| S66.999  | Other injury of unspecified muscle, fascia and tendon at wrist and hand level, unspecified hand                       | Diagnosis     | ICD-10-CM |
| S66.999A | Other injury of unspecified muscle, fascia and tendon at wrist and hand level, unspecified hand, initial encounter    | Diagnosis     | ICD-10-CM |
| S66.999D | Other injury of unspecified muscle, fascia and tendon at wrist and hand level, unspecified hand, subsequent encounter | Diagnosis     | ICD-10-CM |
| S66.999S | Other injury of unspecified muscle, fascia and tendon at wrist and hand level, unspecified hand, sequela              | Diagnosis     | ICD-10-CM |
| S67      | Crushing injury of wrist, hand and fingers  | Diagnosis     | ICD-10-CM |
| S67.0    | Crushing injury of thumb  | Diagnosis     | ICD-10-CM |
| S67.00   | Crushing injury of unspecified thumb  | Diagnosis     | ICD-10-CM |
| S67.00XA | Crushing injury of unspecified thumb, initial encounter   | Diagnosis     | ICD-10-CM |
| S67.00XD | Crushing injury of unspecified thumb, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S67.00XS | Crushing injury of unspecified thumb, sequela   | Diagnosis     | ICD-10-CM |
| S67.01   | Crushing injury of right thumb  | Diagnosis     | ICD-10-CM |
| S67.01XA | Crushing injury of right thumb, initial encounter   | Diagnosis     | ICD-10-CM |
| S67.01XD | Crushing injury of right thumb, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S67.01XS | Crushing injury of right thumb, sequela   | Diagnosis     | ICD-10-CM |
| S67.02   | Crushing injury of left thumb   | Diagnosis     | ICD-10-CM |
| S67.02XA | Crushing injury of left thumb, initial encounter  | Diagnosis     | ICD-10-CM |
| S67.02XD | Crushing injury of left thumb, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S67.02XS | Crushing injury of left thumb, sequela  | Diagnosis     | ICD-10-CM |
| S67.1    | Crushing injury of other and unspecified finger(s)  | Diagnosis     | ICD-10-CM |
| S67.10   | Crushing injury of unspecified finger(s)  | Diagnosis     | ICD-10-CM |
| S67.10XA | Crushing injury of unspecified finger(s), initial encounter   | Diagnosis     | ICD-10-CM |
| S67.10XD | Crushing injury of unspecified finger(s), subsequent encounter  | Diagnosis     | ICD-10-CM |
| S67.10XS | Crushing injury of unspecified finger(s), sequela   | Diagnosis     | ICD-10-CM |
| S67.19   | Crushing injury of other finger(s)  | Diagnosis     | ICD-10-CM |
| S67.190  | Crushing injury of right index finger   | Diagnosis     | ICD-10-CM |
| S67.190A | Crushing injury of right index finger, initial encounter  | Diagnosis     | ICD-10-CM |
| S67.190D | Crushing injury of right index finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S67.190S | Crushing injury of right index finger, sequela  | Diagnosis     | ICD-10-CM |
| S67.191  | Crushing injury of left index finger  | Diagnosis     | ICD-10-CM |
| S67.191A | Crushing injury of left index finger, initial encounter   | Diagnosis     | ICD-10-CM |
| S67.191D | Crushing injury of left index finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S67.191S | Crushing injury of left index finger, sequela   | Diagnosis     | ICD-10-CM |
| S67.192  | Crushing injury of right middle finger  | Diagnosis     | ICD-10-CM |
| S67.192A | Crushing injury of right middle finger, initial encounter   | Diagnosis     | ICD-10-CM |
| S67.192D | Crushing injury of right middle finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S67.192S | Crushing injury of right middle finger, sequela   | Diagnosis     | ICD-10-CM |
| S67.193  | Crushing injury of left middle finger   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S67.193A | Crushing injury of left middle finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S67.193D | Crushing injury of left middle finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S67.193S | Crushing injury of left middle finger, sequela               | Diagnosis     | ICD-10-CM |
| S67.194  | Crushing injury of right ring finger                         | Diagnosis     | ICD-10-CM |
| S67.194A | Crushing injury of right ring finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S67.194D | Crushing injury of right ring finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S67.194S | Crushing injury of right ring finger, sequela                | Diagnosis     | ICD-10-CM |
| S67.195  | Crushing injury of left ring finger                          | Diagnosis     | ICD-10-CM |
| S67.195A | Crushing injury of left ring finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S67.195D | Crushing injury of left ring finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S67.195S | Crushing injury of left ring finger, sequela                 | Diagnosis     | ICD-10-CM |
| S67.196  | Crushing injury of right little finger                       | Diagnosis     | ICD-10-CM |
| S67.196A | Crushing injury of right little finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S67.196D | Crushing injury of right little finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S67.196S | Crushing injury of right little finger, sequela              | Diagnosis     | ICD-10-CM |
| S67.197  | Crushing injury of left little finger                        | Diagnosis     | ICD-10-CM |
| S67.197A | Crushing injury of left little finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S67.197D | Crushing injury of left little finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S67.197S | Crushing injury of left little finger, sequela               | Diagnosis     | ICD-10-CM |
| S67.198  | Crushing injury of other finger                              | Diagnosis     | ICD-10-CM |
| S67.198A | Crushing injury of other finger, initial encounter           | Diagnosis     | ICD-10-CM |
| S67.198D | Crushing injury of other finger, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S67.198S | Crushing injury of other finger, sequela                     | Diagnosis     | ICD-10-CM |
| S67.2    | Crushing injury of hand                                      | Diagnosis     | ICD-10-CM |
| S67.20   | Crushing injury of unspecified hand                          | Diagnosis     | ICD-10-CM |
| S67.20XA | Crushing injury of unspecified hand, initial encounter       | Diagnosis     | ICD-10-CM |
| S67.20XD | Crushing injury of unspecified hand, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S67.20XS | Crushing injury of unspecified hand, sequela                 | Diagnosis     | ICD-10-CM |
| S67.21   | Crushing injury of right hand                                | Diagnosis     | ICD-10-CM |
| S67.21XA | Crushing injury of right hand, initial encounter             | Diagnosis     | ICD-10-CM |
| S67.21XD | Crushing injury of right hand, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S67.21XS | Crushing injury of right hand, sequela                       | Diagnosis     | ICD-10-CM |
| S67.22   | Crushing injury of left hand                                 | Diagnosis     | ICD-10-CM |
| S67.22XA | Crushing injury of left hand, initial encounter              | Diagnosis     | ICD-10-CM |
| S67.22XD | Crushing injury of left hand, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S67.22XS | Crushing injury of left hand, sequela                        | Diagnosis     | ICD-10-CM |
| S67.3    | Crushing injury of wrist                                     | Diagnosis     | ICD-10-CM |
| S67.30   | Crushing injury of unspecified wrist                         | Diagnosis     | ICD-10-CM |
| S67.30XA | Crushing injury of unspecified wrist, initial encounter      | Diagnosis     | ICD-10-CM |
| S67.30XD | Crushing injury of unspecified wrist, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S67.30XS | Crushing injury of unspecified wrist, sequela                | Diagnosis     | ICD-10-CM |
| S67.31   | Crushing injury of right wrist                               | Diagnosis     | ICD-10-CM |
| S67.31XA | Crushing injury of right wrist, initial encounter            | Diagnosis     | ICD-10-CM |
| S67.31XD | Crushing injury of right wrist, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S67.31XS | Crushing injury of right wrist, sequela                      | Diagnosis     | ICD-10-CM |
| S67.32   | Crushing injury of left wrist                                | Diagnosis     | ICD-10-CM |
| S67.32XA | Crushing injury of left wrist, initial encounter             | Diagnosis     | ICD-10-CM |
| S67.32XD | Crushing injury of left wrist, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S67.32XS | Crushing injury of left wrist, sequela                       | Diagnosis     | ICD-10-CM |
| S67.4    | Crushing injury of wrist and hand                            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S67.40   | Crushing injury of unspecified wrist and hand   | Diagnosis     | ICD-10-CM |
| S67.40XA | Crushing injury of unspecified wrist and hand, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S67.40XD | Crushing injury of unspecified wrist and hand, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S67.40XS | Crushing injury of unspecified wrist and hand, sequela  | Diagnosis     | ICD-10-CM |
| S67.41   | Crushing injury of right wrist and hand   | Diagnosis     | ICD-10-CM |
| S67.41XA | Crushing injury of right wrist and hand, initial encounter  | Diagnosis     | ICD-10-CM |
| S67.41XD | Crushing injury of right wrist and hand, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S67.41XS | Crushing injury of right wrist and hand, sequela  | Diagnosis     | ICD-10-CM |
| S67.42   | Crushing injury of left wrist and hand  | Diagnosis     | ICD-10-CM |
| S67.42XA | Crushing injury of left wrist and hand, initial encounter   | Diagnosis     | ICD-10-CM |
| S67.42XD | Crushing injury of left wrist and hand, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S67.42XS | Crushing injury of left wrist and hand, sequela   | Diagnosis     | ICD-10-CM |
| S67.9    | Crushing injury of unspecified part(s) of wrist, hand and fingers                                   | Diagnosis     | ICD-10-CM |
| S67.90   | Crushing injury of unspecified part(s) of unspecified wrist, hand and fingers                       | Diagnosis     | ICD-10-CM |
| S67.90XA | Crushing injury of unspecified part(s) of unspecified wrist, hand and fingers, initial encounter    | Diagnosis     | ICD-10-CM |
| S67.90XD | Crushing injury of unspecified part(s) of unspecified wrist, hand and fingers, subsequent encounter | Diagnosis     | ICD-10-CM |
| S67.90XS | Crushing injury of unspecified part(s) of unspecified wrist, hand and fingers, sequela              | Diagnosis     | ICD-10-CM |
| S67.91   | Crushing injury of unspecified part(s) of right wrist, hand and fingers                             | Diagnosis     | ICD-10-CM |
| S67.91XA | Crushing injury of unspecified part(s) of right wrist, hand and fingers, initial encounter          | Diagnosis     | ICD-10-CM |
| S67.91XD | Crushing injury of unspecified part(s) of right wrist, hand and fingers, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S67.91XS | Crushing injury of unspecified part(s) of right wrist, hand and fingers, sequela                    | Diagnosis     | ICD-10-CM |
| S67.92   | Crushing injury of unspecified part(s) of left wrist, hand and fingers                              | Diagnosis     | ICD-10-CM |
| S67.92XA | Crushing injury of unspecified part(s) of left wrist, hand and fingers, initial encounter           | Diagnosis     | ICD-10-CM |
| S67.92XD | Crushing injury of unspecified part(s) of left wrist, hand and fingers, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S67.92XS | Crushing injury of unspecified part(s) of left wrist, hand and fingers, sequela                     | Diagnosis     | ICD-10-CM |
| S68      | Traumatic amputation of wrist, hand and fingers   | Diagnosis     | ICD-10-CM |
| S68.0    | Traumatic metacarpophalangeal amputation of thumb   | Diagnosis     | ICD-10-CM |
| S68.01   | Complete traumatic metacarpophalangeal amputation of thumb  | Diagnosis     | ICD-10-CM |
| S68.011  | Complete traumatic metacarpophalangeal amputation of right thumb                                    | Diagnosis     | ICD-10-CM |
| S68.011A | Complete traumatic metacarpophalangeal amputation of right thumb, initial encounter                 | Diagnosis     | ICD-10-CM |
| S68.011D | Complete traumatic metacarpophalangeal amputation of right thumb, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S68.011S | Complete traumatic metacarpophalangeal amputation of right thumb, sequela                           | Diagnosis     | ICD-10-CM |
| S68.012  | Complete traumatic metacarpophalangeal amputation of left thumb                                     | Diagnosis     | ICD-10-CM |
| S68.012A | Complete traumatic metacarpophalangeal amputation of left thumb, initial encounter                  | Diagnosis     | ICD-10-CM |
| S68.012D | Complete traumatic metacarpophalangeal amputation of left thumb, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S68.012S | Complete traumatic metacarpophalangeal amputation of left thumb, sequela                            | Diagnosis     | ICD-10-CM |
| S68.019  | Complete traumatic metacarpophalangeal amputation of unspecified thumb                              | Diagnosis     | ICD-10-CM |
| S68.019A | Complete traumatic metacarpophalangeal amputation of unspecified thumb, initial encounter           | Diagnosis     | ICD-10-CM |
| S68.019D | Complete traumatic metacarpophalangeal amputation of unspecified thumb, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S68.019S | Complete traumatic metacarpophalangeal amputation of unspecified thumb, sequela                     | Diagnosis     | ICD-10-CM |
| S68.02   | Partial traumatic metacarpophalangeal amputation of thumb   | Diagnosis     | ICD-10-CM |
| S68.021  | Partial traumatic metacarpophalangeal amputation of right thumb                                     | Diagnosis     | ICD-10-CM |
| S68.021A | Partial traumatic metacarpophalangeal amputation of right thumb, initial encounter                  | Diagnosis     | ICD-10-CM |
| S68.021D | Partial traumatic metacarpophalangeal amputation of right thumb, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S68.021S | Partial traumatic metacarpophalangeal amputation of right thumb, sequela                            | Diagnosis     | ICD-10-CM |
| S68.022  | Partial traumatic metacarpophalangeal amputation of left thumb                                      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S68.022A | Partial traumatic metacarpophalangeal amputation of left thumb, initial encounter              | Diagnosis     | ICD-10-CM |
| S68.022D | Partial traumatic metacarpophalangeal amputation of left thumb, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S68.022S | Partial traumatic metacarpophalangeal amputation of left thumb, sequela                        | Diagnosis     | ICD-10-CM |
| S68.029  | Partial traumatic metacarpophalangeal amputation of unspecified thumb                          | Diagnosis     | ICD-10-CM |
| S68.029A | Partial traumatic metacarpophalangeal amputation of unspecified thumb, initial encounter       | Diagnosis     | ICD-10-CM |
| S68.029D | Partial traumatic metacarpophalangeal amputation of unspecified thumb, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S68.029S | Partial traumatic metacarpophalangeal amputation of unspecified thumb, sequela                 | Diagnosis     | ICD-10-CM |
| S68.1    | Traumatic metacarpophalangeal amputation of other and unspecified finger                       | Diagnosis     | ICD-10-CM |
| S68.11   | Complete traumatic metacarpophalangeal amputation of other and unspecified finger              | Diagnosis     | ICD-10-CM |
| S68.110  | Complete traumatic metacarpophalangeal amputation of right index finger                        | Diagnosis     | ICD-10-CM |
| S68.110A | Complete traumatic metacarpophalangeal amputation of right index finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S68.110D | Complete traumatic metacarpophalangeal amputation of right index finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S68.110S | Complete traumatic metacarpophalangeal amputation of right index finger, sequela               | Diagnosis     | ICD-10-CM |
| S68.111  | Complete traumatic metacarpophalangeal amputation of left index finger                         | Diagnosis     | ICD-10-CM |
| S68.111A | Complete traumatic metacarpophalangeal amputation of left index finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S68.111D | Complete traumatic metacarpophalangeal amputation of left index finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S68.111S | Complete traumatic metacarpophalangeal amputation of left index finger, sequela                | Diagnosis     | ICD-10-CM |
| S68.112  | Complete traumatic metacarpophalangeal amputation of right middle finger                       | Diagnosis     | ICD-10-CM |
| S68.112A | Complete traumatic metacarpophalangeal amputation of right middle finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S68.112D | Complete traumatic metacarpophalangeal amputation of right middle finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S68.112S | Complete traumatic metacarpophalangeal amputation of right middle finger, sequela              | Diagnosis     | ICD-10-CM |
| S68.113  | Complete traumatic metacarpophalangeal amputation of left middle finger                        | Diagnosis     | ICD-10-CM |
| S68.113A | Complete traumatic metacarpophalangeal amputation of left middle finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S68.113D | Complete traumatic metacarpophalangeal amputation of left middle finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S68.113S | Complete traumatic metacarpophalangeal amputation of left middle finger, sequela               | Diagnosis     | ICD-10-CM |
| S68.114  | Complete traumatic metacarpophalangeal amputation of right ring finger                         | Diagnosis     | ICD-10-CM |
| S68.114A | Complete traumatic metacarpophalangeal amputation of right ring finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S68.114D | Complete traumatic metacarpophalangeal amputation of right ring finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S68.114S | Complete traumatic metacarpophalangeal amputation of right ring finger, sequela                | Diagnosis     | ICD-10-CM |
| S68.115  | Complete traumatic metacarpophalangeal amputation of left ring finger                          | Diagnosis     | ICD-10-CM |
| S68.115A | Complete traumatic metacarpophalangeal amputation of left ring finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S68.115D | Complete traumatic metacarpophalangeal amputation of left ring finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S68.115S | Complete traumatic metacarpophalangeal amputation of left ring finger, sequela                 | Diagnosis     | ICD-10-CM |
| S68.116  | Complete traumatic metacarpophalangeal amputation of right little finger                       | Diagnosis     | ICD-10-CM |
| S68.116A | Complete traumatic metacarpophalangeal amputation of right little finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S68.116D | Complete traumatic metacarpophalangeal amputation of right little finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S68.116S | Complete traumatic metacarpophalangeal amputation of right little finger, sequela              | Diagnosis     | ICD-10-CM |
| S68.117  | Complete traumatic metacarpophalangeal amputation of left little finger                        | Diagnosis     | ICD-10-CM |
| S68.117A | Complete traumatic metacarpophalangeal amputation of left little finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S68.117D | Complete traumatic metacarpophalangeal amputation of left little finger, subsequent encounter  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S68.117S | Complete traumatic metacarpophalangeal amputation of left little finger, sequela              | Diagnosis     | ICD-10-CM |
| S68.118  | Complete traumatic metacarpophalangeal amputation of other finger                             | Diagnosis     | ICD-10-CM |
| S68.118A | Complete traumatic metacarpophalangeal amputation of other finger, initial encounter          | Diagnosis     | ICD-10-CM |
| S68.118D | Complete traumatic metacarpophalangeal amputation of other finger, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S68.118S | Complete traumatic metacarpophalangeal amputation of other finger, sequela                    | Diagnosis     | ICD-10-CM |
| S68.119  | Complete traumatic metacarpophalangeal amputation of unspecified finger                       | Diagnosis     | ICD-10-CM |
| S68.119A | Complete traumatic metacarpophalangeal amputation of unspecified finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S68.119D | Complete traumatic metacarpophalangeal amputation of unspecified finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S68.119S | Complete traumatic metacarpophalangeal amputation of unspecified finger, sequela              | Diagnosis     | ICD-10-CM |
| S68.12   | Partial traumatic metacarpophalangeal amputation of other and unspecified finger              | Diagnosis     | ICD-10-CM |
| S68.120  | Partial traumatic metacarpophalangeal amputation of right index finger                        | Diagnosis     | ICD-10-CM |
| S68.120A | Partial traumatic metacarpophalangeal amputation of right index finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S68.120D | Partial traumatic metacarpophalangeal amputation of right index finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S68.120S | Partial traumatic metacarpophalangeal amputation of right index finger, sequela               | Diagnosis     | ICD-10-CM |
| S68.121  | Partial traumatic metacarpophalangeal amputation of left index finger                         | Diagnosis     | ICD-10-CM |
| S68.121A | Partial traumatic metacarpophalangeal amputation of left index finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S68.121D | Partial traumatic metacarpophalangeal amputation of left index finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S68.121S | Partial traumatic metacarpophalangeal amputation of left index finger, sequela                | Diagnosis     | ICD-10-CM |
| S68.122  | Partial traumatic metacarpophalangeal amputation of right middle finger                       | Diagnosis     | ICD-10-CM |
| S68.122A | Partial traumatic metacarpophalangeal amputation of right middle finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S68.122D | Partial traumatic metacarpophalangeal amputation of right middle finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S68.122S | Partial traumatic metacarpophalangeal amputation of right middle finger, sequela              | Diagnosis     | ICD-10-CM |
| S68.123  | Partial traumatic metacarpophalangeal amputation of left middle finger                        | Diagnosis     | ICD-10-CM |
| S68.123A | Partial traumatic metacarpophalangeal amputation of left middle finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S68.123D | Partial traumatic metacarpophalangeal amputation of left middle finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S68.123S | Partial traumatic metacarpophalangeal amputation of left middle finger, sequela               | Diagnosis     | ICD-10-CM |
| S68.124  | Partial traumatic metacarpophalangeal amputation of right ring finger                         | Diagnosis     | ICD-10-CM |
| S68.124A | Partial traumatic metacarpophalangeal amputation of right ring finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S68.124D | Partial traumatic metacarpophalangeal amputation of right ring finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S68.124S | Partial traumatic metacarpophalangeal amputation of right ring finger, sequela                | Diagnosis     | ICD-10-CM |
| S68.125  | Partial traumatic metacarpophalangeal amputation of left ring finger                          | Diagnosis     | ICD-10-CM |
| S68.125A | Partial traumatic metacarpophalangeal amputation of left ring finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S68.125D | Partial traumatic metacarpophalangeal amputation of left ring finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S68.125S | Partial traumatic metacarpophalangeal amputation of left ring finger, sequela                 | Diagnosis     | ICD-10-CM |
| S68.126  | Partial traumatic metacarpophalangeal amputation of right little finger                       | Diagnosis     | ICD-10-CM |
| S68.126A | Partial traumatic metacarpophalangeal amputation of right little finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S68.126D | Partial traumatic metacarpophalangeal amputation of right little finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S68.126S | Partial traumatic metacarpophalangeal amputation of right little finger, sequela              | Diagnosis     | ICD-10-CM |
| S68.127  | Partial traumatic metacarpophalangeal amputation of left little finger                        | Diagnosis     | ICD-10-CM |
| S68.127A | Partial traumatic metacarpophalangeal amputation of left little finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S68.127D | Partial traumatic metacarpophalangeal amputation of left little finger, subsequent encounter  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S68.127S | Partial traumatic metacarpophalangeal amputation of left little finger, sequela              | Diagnosis     | ICD-10-CM |
| S68.128  | Partial traumatic metacarpophalangeal amputation of other finger                             | Diagnosis     | ICD-10-CM |
| S68.128A | Partial traumatic metacarpophalangeal amputation of other finger, initial encounter          | Diagnosis     | ICD-10-CM |
| S68.128D | Partial traumatic metacarpophalangeal amputation of other finger, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S68.128S | Partial traumatic metacarpophalangeal amputation of other finger, sequela                    | Diagnosis     | ICD-10-CM |
| S68.129  | Partial traumatic metacarpophalangeal amputation of unspecified finger                       | Diagnosis     | ICD-10-CM |
| S68.129A | Partial traumatic metacarpophalangeal amputation of unspecified finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S68.129D | Partial traumatic metacarpophalangeal amputation of unspecified finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S68.129S | Partial traumatic metacarpophalangeal amputation of unspecified finger, sequela              | Diagnosis     | ICD-10-CM |
| S68.4    | Traumatic amputation of hand at wrist level  | Diagnosis     | ICD-10-CM |
| S68.41   | Complete traumatic amputation of hand at wrist level   | Diagnosis     | ICD-10-CM |
| S68.411  | Complete traumatic amputation of right hand at wrist level                                   | Diagnosis     | ICD-10-CM |
| S68.411A | Complete traumatic amputation of right hand at wrist level, initial encounter                | Diagnosis     | ICD-10-CM |
| S68.411D | Complete traumatic amputation of right hand at wrist level, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S68.411S | Complete traumatic amputation of right hand at wrist level, sequela                          | Diagnosis     | ICD-10-CM |
| S68.412  | Complete traumatic amputation of left hand at wrist level                                    | Diagnosis     | ICD-10-CM |
| S68.412A | Complete traumatic amputation of left hand at wrist level, initial encounter                 | Diagnosis     | ICD-10-CM |
| S68.412D | Complete traumatic amputation of left hand at wrist level, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S68.412S | Complete traumatic amputation of left hand at wrist level, sequela                           | Diagnosis     | ICD-10-CM |
| S68.419  | Complete traumatic amputation of unspecified hand at wrist level                             | Diagnosis     | ICD-10-CM |
| S68.419A | Complete traumatic amputation of unspecified hand at wrist level, initial encounter          | Diagnosis     | ICD-10-CM |
| S68.419D | Complete traumatic amputation of unspecified hand at wrist level, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S68.419S | Complete traumatic amputation of unspecified hand at wrist level, sequela                    | Diagnosis     | ICD-10-CM |
| S68.42   | Partial traumatic amputation of hand at wrist level  | Diagnosis     | ICD-10-CM |
| S68.421  | Partial traumatic amputation of right hand at wrist level                                    | Diagnosis     | ICD-10-CM |
| S68.421A | Partial traumatic amputation of right hand at wrist level, initial encounter                 | Diagnosis     | ICD-10-CM |
| S68.421D | Partial traumatic amputation of right hand at wrist level, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S68.421S | Partial traumatic amputation of right hand at wrist level, sequela                           | Diagnosis     | ICD-10-CM |
| S68.422  | Partial traumatic amputation of left hand at wrist level                                     | Diagnosis     | ICD-10-CM |
| S68.422A | Partial traumatic amputation of left hand at wrist level, initial encounter                  | Diagnosis     | ICD-10-CM |
| S68.422D | Partial traumatic amputation of left hand at wrist level, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S68.422S | Partial traumatic amputation of left hand at wrist level, sequela                            | Diagnosis     | ICD-10-CM |
| S68.429  | Partial traumatic amputation of unspecified hand at wrist level                              | Diagnosis     | ICD-10-CM |
| S68.429A | Partial traumatic amputation of unspecified hand at wrist level, initial encounter           | Diagnosis     | ICD-10-CM |
| S68.429D | Partial traumatic amputation of unspecified hand at wrist level, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S68.429S | Partial traumatic amputation of unspecified hand at wrist level, sequela                     | Diagnosis     | ICD-10-CM |
| S68.5    | Traumatic transphalangeal amputation of thumb  | Diagnosis     | ICD-10-CM |
| S68.51   | Complete traumatic transphalangeal amputation of thumb                                       | Diagnosis     | ICD-10-CM |
| S68.511  | Complete traumatic transphalangeal amputation of right thumb                                 | Diagnosis     | ICD-10-CM |
| S68.511A | Complete traumatic transphalangeal amputation of right thumb, initial encounter              | Diagnosis     | ICD-10-CM |
| S68.511D | Complete traumatic transphalangeal amputation of right thumb, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S68.511S | Complete traumatic transphalangeal amputation of right thumb, sequela                        | Diagnosis     | ICD-10-CM |
| S68.512  | Complete traumatic transphalangeal amputation of left thumb                                  | Diagnosis     | ICD-10-CM |
| S68.512A | Complete traumatic transphalangeal amputation of left thumb, initial encounter               | Diagnosis     | ICD-10-CM |
| S68.512D | Complete traumatic transphalangeal amputation of left thumb, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S68.512S | Complete traumatic transphalangeal amputation of left thumb, sequela                         | Diagnosis     | ICD-10-CM |
| S68.519  | Complete traumatic transphalangeal amputation of unspecified thumb                           | Diagnosis     | ICD-10-CM |
| S68.519A | Complete traumatic transphalangeal amputation of unspecified thumb, initial encounter        | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S68.519D | Complete traumatic transphalangeal amputation of unspecified thumb, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S68.519S | Complete traumatic transphalangeal amputation of unspecified thumb, sequela                | Diagnosis     | ICD-10-CM |
| S68.52   | Partial traumatic transphalangeal amputation of thumb                                      | Diagnosis     | ICD-10-CM |
| S68.521  | Partial traumatic transphalangeal amputation of right thumb                                | Diagnosis     | ICD-10-CM |
| S68.521A | Partial traumatic transphalangeal amputation of right thumb, initial encounter             | Diagnosis     | ICD-10-CM |
| S68.521D | Partial traumatic transphalangeal amputation of right thumb, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S68.521S | Partial traumatic transphalangeal amputation of right thumb, sequela                       | Diagnosis     | ICD-10-CM |
| S68.522  | Partial traumatic transphalangeal amputation of left thumb                                 | Diagnosis     | ICD-10-CM |
| S68.522A | Partial traumatic transphalangeal amputation of left thumb, initial encounter              | Diagnosis     | ICD-10-CM |
| S68.522D | Partial traumatic transphalangeal amputation of left thumb, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S68.522S | Partial traumatic transphalangeal amputation of left thumb, sequela                        | Diagnosis     | ICD-10-CM |
| S68.529  | Partial traumatic transphalangeal amputation of unspecified thumb                          | Diagnosis     | ICD-10-CM |
| S68.529A | Partial traumatic transphalangeal amputation of unspecified thumb, initial encounter       | Diagnosis     | ICD-10-CM |
| S68.529D | Partial traumatic transphalangeal amputation of unspecified thumb, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S68.529S | Partial traumatic transphalangeal amputation of unspecified thumb, sequela                 | Diagnosis     | ICD-10-CM |
| S68.6    | Traumatic transphalangeal amputation of other and unspecified finger                       | Diagnosis     | ICD-10-CM |
| S68.61   | Complete traumatic transphalangeal amputation of other and unspecified finger(s)           | Diagnosis     | ICD-10-CM |
| S68.610  | Complete traumatic transphalangeal amputation of right index finger                        | Diagnosis     | ICD-10-CM |
| S68.610A | Complete traumatic transphalangeal amputation of right index finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S68.610D | Complete traumatic transphalangeal amputation of right index finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S68.610S | Complete traumatic transphalangeal amputation of right index finger, sequela               | Diagnosis     | ICD-10-CM |
| S68.611  | Complete traumatic transphalangeal amputation of left index finger                         | Diagnosis     | ICD-10-CM |
| S68.611A | Complete traumatic transphalangeal amputation of left index finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S68.611D | Complete traumatic transphalangeal amputation of left index finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S68.611S | Complete traumatic transphalangeal amputation of left index finger, sequela                | Diagnosis     | ICD-10-CM |
| S68.612  | Complete traumatic transphalangeal amputation of right middle finger                       | Diagnosis     | ICD-10-CM |
| S68.612A | Complete traumatic transphalangeal amputation of right middle finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S68.612D | Complete traumatic transphalangeal amputation of right middle finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S68.612S | Complete traumatic transphalangeal amputation of right middle finger, sequela              | Diagnosis     | ICD-10-CM |
| S68.613  | Complete traumatic transphalangeal amputation of left middle finger                        | Diagnosis     | ICD-10-CM |
| S68.613A | Complete traumatic transphalangeal amputation of left middle finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S68.613D | Complete traumatic transphalangeal amputation of left middle finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S68.613S | Complete traumatic transphalangeal amputation of left middle finger, sequela               | Diagnosis     | ICD-10-CM |
| S68.614  | Complete traumatic transphalangeal amputation of right ring finger                         | Diagnosis     | ICD-10-CM |
| S68.614A | Complete traumatic transphalangeal amputation of right ring finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S68.614D | Complete traumatic transphalangeal amputation of right ring finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S68.614S | Complete traumatic transphalangeal amputation of right ring finger, sequela                | Diagnosis     | ICD-10-CM |
| S68.615  | Complete traumatic transphalangeal amputation of left ring finger                          | Diagnosis     | ICD-10-CM |
| S68.615A | Complete traumatic transphalangeal amputation of left ring finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S68.615D | Complete traumatic transphalangeal amputation of left ring finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S68.615S | Complete traumatic transphalangeal amputation of left ring finger, sequela                 | Diagnosis     | ICD-10-CM |
| S68.616  | Complete traumatic transphalangeal amputation of right little finger                       | Diagnosis     | ICD-10-CM |
| S68.616A | Complete traumatic transphalangeal amputation of right little finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S68.616D | Complete traumatic transphalangeal amputation of right little finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S68.616S | Complete traumatic transphalangeal amputation of right little finger, sequela              | Diagnosis     | ICD-10-CM |
| S68.617  | Complete traumatic transphalangeal amputation of left little finger                        | Diagnosis     | ICD-10-CM |
| S68.617A | Complete traumatic transphalangeal amputation of left little finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S68.617D | Complete traumatic transphalangeal amputation of left little finger, subsequent encounter  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S68.617S | Complete traumatic transphalangeal amputation of left little finger, sequela              | Diagnosis     | ICD-10-CM |
| S68.618  | Complete traumatic transphalangeal amputation of other finger                             | Diagnosis     | ICD-10-CM |
| S68.618A | Complete traumatic transphalangeal amputation of other finger, initial encounter          | Diagnosis     | ICD-10-CM |
| S68.618D | Complete traumatic transphalangeal amputation of other finger, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S68.618S | Complete traumatic transphalangeal amputation of other finger, sequela                    | Diagnosis     | ICD-10-CM |
| S68.619  | Complete traumatic transphalangeal amputation of unspecified finger                       | Diagnosis     | ICD-10-CM |
| S68.619A | Complete traumatic transphalangeal amputation of unspecified finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S68.619D | Complete traumatic transphalangeal amputation of unspecified finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S68.619S | Complete traumatic transphalangeal amputation of unspecified finger, sequela              | Diagnosis     | ICD-10-CM |
| S68.62   | Partial traumatic transphalangeal amputation of other and unspecified finger              | Diagnosis     | ICD-10-CM |
| S68.620  | Partial traumatic transphalangeal amputation of right index finger                        | Diagnosis     | ICD-10-CM |
| S68.620A | Partial traumatic transphalangeal amputation of right index finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S68.620D | Partial traumatic transphalangeal amputation of right index finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S68.620S | Partial traumatic transphalangeal amputation of right index finger, sequela               | Diagnosis     | ICD-10-CM |
| S68.621  | Partial traumatic transphalangeal amputation of left index finger                         | Diagnosis     | ICD-10-CM |
| S68.621A | Partial traumatic transphalangeal amputation of left index finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S68.621D | Partial traumatic transphalangeal amputation of left index finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S68.621S | Partial traumatic transphalangeal amputation of left index finger, sequela                | Diagnosis     | ICD-10-CM |
| S68.622  | Partial traumatic transphalangeal amputation of right middle finger                       | Diagnosis     | ICD-10-CM |
| S68.622A | Partial traumatic transphalangeal amputation of right middle finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S68.622D | Partial traumatic transphalangeal amputation of right middle finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S68.622S | Partial traumatic transphalangeal amputation of right middle finger, sequela              | Diagnosis     | ICD-10-CM |
| S68.623  | Partial traumatic transphalangeal amputation of left middle finger                        | Diagnosis     | ICD-10-CM |
| S68.623A | Partial traumatic transphalangeal amputation of left middle finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S68.623D | Partial traumatic transphalangeal amputation of left middle finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S68.623S | Partial traumatic transphalangeal amputation of left middle finger, sequela               | Diagnosis     | ICD-10-CM |
| S68.624  | Partial traumatic transphalangeal amputation of right ring finger                         | Diagnosis     | ICD-10-CM |
| S68.624A | Partial traumatic transphalangeal amputation of right ring finger, initial encounter      | Diagnosis     | ICD-10-CM |
| S68.624D | Partial traumatic transphalangeal amputation of right ring finger, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S68.624S | Partial traumatic transphalangeal amputation of right ring finger, sequela                | Diagnosis     | ICD-10-CM |
| S68.625  | Partial traumatic transphalangeal amputation of left ring finger                          | Diagnosis     | ICD-10-CM |
| S68.625A | Partial traumatic transphalangeal amputation of left ring finger, initial encounter       | Diagnosis     | ICD-10-CM |
| S68.625D | Partial traumatic transphalangeal amputation of left ring finger, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S68.625S | Partial traumatic transphalangeal amputation of left ring finger, sequela                 | Diagnosis     | ICD-10-CM |
| S68.626  | Partial traumatic transphalangeal amputation of right little finger                       | Diagnosis     | ICD-10-CM |
| S68.626A | Partial traumatic transphalangeal amputation of right little finger, initial encounter    | Diagnosis     | ICD-10-CM |
| S68.626D | Partial traumatic transphalangeal amputation of right little finger, subsequent encounter | Diagnosis     | ICD-10-CM |
| S68.626S | Partial traumatic transphalangeal amputation of right little finger, sequela              | Diagnosis     | ICD-10-CM |
| S68.627  | Partial traumatic transphalangeal amputation of left little finger                        | Diagnosis     | ICD-10-CM |
| S68.627A | Partial traumatic transphalangeal amputation of left little finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S68.627D | Partial traumatic transphalangeal amputation of left little finger, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S68.627S | Partial traumatic transphalangeal amputation of left little finger, sequela               | Diagnosis     | ICD-10-CM |
| S68.628  | Partial traumatic transphalangeal amputation of other finger                              | Diagnosis     | ICD-10-CM |
| S68.628A | Partial traumatic transphalangeal amputation of other finger, initial encounter           | Diagnosis     | ICD-10-CM |
| S68.628D | Partial traumatic transphalangeal amputation of other finger, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S68.628S | Partial traumatic transphalangeal amputation of other finger, sequela                     | Diagnosis     | ICD-10-CM |
| S68.629  | Partial traumatic transphalangeal amputation of unspecified finger                        | Diagnosis     | ICD-10-CM |
| S68.629A | Partial traumatic transphalangeal amputation of unspecified finger, initial encounter     | Diagnosis     | ICD-10-CM |
| S68.629D | Partial traumatic transphalangeal amputation of unspecified finger, subsequent encounter  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S68.629S | Partial traumatic transphalangeal amputation of unspecified finger, sequela             | Diagnosis     | ICD-10-CM |
| S68.7    | Traumatic transmetacarpal amputation of hand  | Diagnosis     | ICD-10-CM |
| S68.71   | Complete traumatic transmetacarpal amputation of hand                                   | Diagnosis     | ICD-10-CM |
| S68.711  | Complete traumatic transmetacarpal amputation of right hand                             | Diagnosis     | ICD-10-CM |
| S68.711A | Complete traumatic transmetacarpal amputation of right hand, initial encounter          | Diagnosis     | ICD-10-CM |
| S68.711D | Complete traumatic transmetacarpal amputation of right hand, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S68.711S | Complete traumatic transmetacarpal amputation of right hand, sequela                    | Diagnosis     | ICD-10-CM |
| S68.712  | Complete traumatic transmetacarpal amputation of left hand                              | Diagnosis     | ICD-10-CM |
| S68.712A | Complete traumatic transmetacarpal amputation of left hand, initial encounter           | Diagnosis     | ICD-10-CM |
| S68.712D | Complete traumatic transmetacarpal amputation of left hand, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S68.712S | Complete traumatic transmetacarpal amputation of left hand, sequela                     | Diagnosis     | ICD-10-CM |
| S68.719  | Complete traumatic transmetacarpal amputation of unspecified hand                       | Diagnosis     | ICD-10-CM |
| S68.719A | Complete traumatic transmetacarpal amputation of unspecified hand, initial encounter    | Diagnosis     | ICD-10-CM |
| S68.719D | Complete traumatic transmetacarpal amputation of unspecified hand, subsequent encounter | Diagnosis     | ICD-10-CM |
| S68.719S | Complete traumatic transmetacarpal amputation of unspecified hand, sequela              | Diagnosis     | ICD-10-CM |
| S68.72   | Partial traumatic transmetacarpal amputation of hand                                    | Diagnosis     | ICD-10-CM |
| S68.721  | Partial traumatic transmetacarpal amputation of right hand                              | Diagnosis     | ICD-10-CM |
| S68.721A | Partial traumatic transmetacarpal amputation of right hand, initial encounter           | Diagnosis     | ICD-10-CM |
| S68.721D | Partial traumatic transmetacarpal amputation of right hand, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S68.721S | Partial traumatic transmetacarpal amputation of right hand, sequela                     | Diagnosis     | ICD-10-CM |
| S68.722  | Partial traumatic transmetacarpal amputation of left hand                               | Diagnosis     | ICD-10-CM |
| S68.722A | Partial traumatic transmetacarpal amputation of left hand, initial encounter            | Diagnosis     | ICD-10-CM |
| S68.722D | Partial traumatic transmetacarpal amputation of left hand, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S68.722S | Partial traumatic transmetacarpal amputation of left hand, sequela                      | Diagnosis     | ICD-10-CM |
| S68.729  | Partial traumatic transmetacarpal amputation of unspecified hand                        | Diagnosis     | ICD-10-CM |
| S68.729A | Partial traumatic transmetacarpal amputation of unspecified hand, initial encounter     | Diagnosis     | ICD-10-CM |
| S68.729D | Partial traumatic transmetacarpal amputation of unspecified hand, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S68.729S | Partial traumatic transmetacarpal amputation of unspecified hand, sequela               | Diagnosis     | ICD-10-CM |
| S69      | Other and unspecified injuries of wrist, hand and finger(s)                             | Diagnosis     | ICD-10-CM |
| S69.8    | Other specified injuries of wrist, hand and finger(s)                                   | Diagnosis     | ICD-10-CM |
| S69.80   | Other specified injuries of unspecified wrist, hand and finger(s)                       | Diagnosis     | ICD-10-CM |
| S69.80XA | Other specified injuries of unspecified wrist, hand and finger(s), initial encounter    | Diagnosis     | ICD-10-CM |
| S69.80XD | Other specified injuries of unspecified wrist, hand and finger(s), subsequent encounter | Diagnosis     | ICD-10-CM |
| S69.80XS | Other specified injuries of unspecified wrist, hand and finger(s), sequela              | Diagnosis     | ICD-10-CM |
| S69.81   | Other specified injuries of right wrist, hand and finger(s)                             | Diagnosis     | ICD-10-CM |
| S69.81XA | Other specified injuries of right wrist, hand and finger(s), initial encounter          | Diagnosis     | ICD-10-CM |
| S69.81XD | Other specified injuries of right wrist, hand and finger(s), subsequent encounter       | Diagnosis     | ICD-10-CM |
| S69.81XS | Other specified injuries of right wrist, hand and finger(s), sequela                    | Diagnosis     | ICD-10-CM |
| S69.82   | Other specified injuries of left wrist, hand and finger(s)                              | Diagnosis     | ICD-10-CM |
| S69.82XA | Other specified injuries of left wrist, hand and finger(s), initial encounter           | Diagnosis     | ICD-10-CM |
| S69.82XD | Other specified injuries of left wrist, hand and finger(s), subsequent encounter        | Diagnosis     | ICD-10-CM |
| S69.82XS | Other specified injuries of left wrist, hand and finger(s), sequela                     | Diagnosis     | ICD-10-CM |
| S69.9    | Unspecified injury of wrist, hand and finger(s)   | Diagnosis     | ICD-10-CM |
| S69.90   | Unspecified injury of unspecified wrist, hand and finger(s)                             | Diagnosis     | ICD-10-CM |
| S69.90XA | Unspecified injury of unspecified wrist, hand and finger(s), initial encounter          | Diagnosis     | ICD-10-CM |
| S69.90XD | Unspecified injury of unspecified wrist, hand and finger(s), subsequent encounter       | Diagnosis     | ICD-10-CM |
| S69.90XS | Unspecified injury of unspecified wrist, hand and finger(s), sequela                    | Diagnosis     | ICD-10-CM |
| S69.91   | Unspecified injury of right wrist, hand and finger(s)                                   | Diagnosis     | ICD-10-CM |
| S69.91XA | Unspecified injury of right wrist, hand and finger(s), initial encounter                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S69.91XD | Unspecified injury of right wrist, hand and finger(s), subsequent encounter | Diagnosis     | ICD-10-CM |
| S69.91XS | Unspecified injury of right wrist, hand and finger(s), sequela              | Diagnosis     | ICD-10-CM |
| S69.92   | Unspecified injury of left wrist, hand and finger(s)                        | Diagnosis     | ICD-10-CM |
| S69.92XA | Unspecified injury of left wrist, hand and finger(s), initial encounter     | Diagnosis     | ICD-10-CM |
| S69.92XD | Unspecified injury of left wrist, hand and finger(s), subsequent encounter  | Diagnosis     | ICD-10-CM |
| S69.92XS | Unspecified injury of left wrist, hand and finger(s), sequela               | Diagnosis     | ICD-10-CM |
| S70      | Superficial injury of hip and thigh   | Diagnosis     | ICD-10-CM |
| S70.0    | Contusion of hip  | Diagnosis     | ICD-10-CM |
| S70.00   | Contusion of unspecified hip  | Diagnosis     | ICD-10-CM |
| S70.00XA | Contusion of unspecified hip, initial encounter                             | Diagnosis     | ICD-10-CM |
| S70.00XD | Contusion of unspecified hip, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S70.00XS | Contusion of unspecified hip, sequela                                       | Diagnosis     | ICD-10-CM |
| S70.01   | Contusion of right hip  | Diagnosis     | ICD-10-CM |
| S70.01XA | Contusion of right hip, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S70.01XD | Contusion of right hip, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S70.01XS | Contusion of right hip, sequela   | Diagnosis     | ICD-10-CM |
| S70.02   | Contusion of left hip   | Diagnosis     | ICD-10-CM |
| S70.02XA | Contusion of left hip, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S70.02XD | Contusion of left hip, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S70.02XS | Contusion of left hip, sequela  | Diagnosis     | ICD-10-CM |
| S70.1    | Contusion of thigh  | Diagnosis     | ICD-10-CM |
| S70.10   | Contusion of unspecified thigh  | Diagnosis     | ICD-10-CM |
| S70.10XA | Contusion of unspecified thigh, initial encounter                           | Diagnosis     | ICD-10-CM |
| S70.10XD | Contusion of unspecified thigh, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S70.10XS | Contusion of unspecified thigh, sequela                                     | Diagnosis     | ICD-10-CM |
| S70.11   | Contusion of right thigh  | Diagnosis     | ICD-10-CM |
| S70.11XA | Contusion of right thigh, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S70.11XD | Contusion of right thigh, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S70.11XS | Contusion of right thigh, sequela   | Diagnosis     | ICD-10-CM |
| S70.12   | Contusion of left thigh   | Diagnosis     | ICD-10-CM |
| S70.12XA | Contusion of left thigh, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S70.12XD | Contusion of left thigh, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S70.12XS | Contusion of left thigh, sequela  | Diagnosis     | ICD-10-CM |
| S70.2    | Other superficial injuries of hip   | Diagnosis     | ICD-10-CM |
| S70.21   | Abrasion of hip   | Diagnosis     | ICD-10-CM |
| S70.211  | Abrasion, right hip   | Diagnosis     | ICD-10-CM |
| S70.211A | Abrasion, right hip, initial encounter                                      | Diagnosis     | ICD-10-CM |
| S70.211D | Abrasion, right hip, subsequent encounter                                   | Diagnosis     | ICD-10-CM |
| S70.211S | Abrasion, right hip, sequela  | Diagnosis     | ICD-10-CM |
| S70.212  | Abrasion, left hip  | Diagnosis     | ICD-10-CM |
| S70.212A | Abrasion, left hip, initial encounter                                       | Diagnosis     | ICD-10-CM |
| S70.212D | Abrasion, left hip, subsequent encounter                                    | Diagnosis     | ICD-10-CM |
| S70.212S | Abrasion, left hip, sequela   | Diagnosis     | ICD-10-CM |
| S70.219  | Abrasion, unspecified hip   | Diagnosis     | ICD-10-CM |
| S70.219A | Abrasion, unspecified hip, initial encounter                                | Diagnosis     | ICD-10-CM |
| S70.219D | Abrasion, unspecified hip, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S70.219S | Abrasion, unspecified hip, sequela  | Diagnosis     | ICD-10-CM |
| S70.22   | Blister (nonthermal) of hip   | Diagnosis     | ICD-10-CM |
| S70.221  | Blister (nonthermal), right hip   | Diagnosis     | ICD-10-CM |
| S70.221A | Blister (nonthermal), right hip, initial encounter                          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S70.221D | Blister (nonthermal), right hip, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S70.221S | Blister (nonthermal), right hip, sequela                         | Diagnosis     | ICD-10-CM |
| S70.222  | Blister (nonthermal), left hip                                   | Diagnosis     | ICD-10-CM |
| S70.222A | Blister (nonthermal), left hip, initial encounter                | Diagnosis     | ICD-10-CM |
| S70.222D | Blister (nonthermal), left hip, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S70.222S | Blister (nonthermal), left hip, sequela                          | Diagnosis     | ICD-10-CM |
| S70.229  | Blister (nonthermal), unspecified hip                            | Diagnosis     | ICD-10-CM |
| S70.229A | Blister (nonthermal), unspecified hip, initial encounter         | Diagnosis     | ICD-10-CM |
| S70.229D | Blister (nonthermal), unspecified hip, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S70.229S | Blister (nonthermal), unspecified hip, sequela                   | Diagnosis     | ICD-10-CM |
| S70.24   | External constriction of hip                                     | Diagnosis     | ICD-10-CM |
| S70.241  | External constriction, right hip                                 | Diagnosis     | ICD-10-CM |
| S70.241A | External constriction, right hip, initial encounter              | Diagnosis     | ICD-10-CM |
| S70.241D | External constriction, right hip, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S70.241S | External constriction, right hip, sequela                        | Diagnosis     | ICD-10-CM |
| S70.242  | External constriction, left hip                                  | Diagnosis     | ICD-10-CM |
| S70.242A | External constriction, left hip, initial encounter               | Diagnosis     | ICD-10-CM |
| S70.242D | External constriction, left hip, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S70.242S | External constriction, left hip, sequela                         | Diagnosis     | ICD-10-CM |
| S70.249  | External constriction, unspecified hip                           | Diagnosis     | ICD-10-CM |
| S70.249A | External constriction, unspecified hip, initial encounter        | Diagnosis     | ICD-10-CM |
| S70.249D | External constriction, unspecified hip, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S70.249S | External constriction, unspecified hip, sequela                  | Diagnosis     | ICD-10-CM |
| S70.25   | Superficial foreign body of hip                                  | Diagnosis     | ICD-10-CM |
| S70.251  | Superficial foreign body, right hip                              | Diagnosis     | ICD-10-CM |
| S70.251A | Superficial foreign body, right hip, initial encounter           | Diagnosis     | ICD-10-CM |
| S70.251D | Superficial foreign body, right hip, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S70.251S | Superficial foreign body, right hip, sequela                     | Diagnosis     | ICD-10-CM |
| S70.252  | Superficial foreign body, left hip                               | Diagnosis     | ICD-10-CM |
| S70.252A | Superficial foreign body, left hip, initial encounter            | Diagnosis     | ICD-10-CM |
| S70.252D | Superficial foreign body, left hip, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S70.252S | Superficial foreign body, left hip, sequela                      | Diagnosis     | ICD-10-CM |
| S70.259  | Superficial foreign body, unspecified hip                        | Diagnosis     | ICD-10-CM |
| S70.259A | Superficial foreign body, unspecified hip, initial encounter     | Diagnosis     | ICD-10-CM |
| S70.259D | Superficial foreign body, unspecified hip, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S70.259S | Superficial foreign body, unspecified hip, sequela               | Diagnosis     | ICD-10-CM |
| S70.26   | Insect bite (nonvenomous) of hip                                 | Diagnosis     | ICD-10-CM |
| S70.261  | Insect bite (nonvenomous), right hip                             | Diagnosis     | ICD-10-CM |
| S70.261A | Insect bite (nonvenomous), right hip, initial encounter          | Diagnosis     | ICD-10-CM |
| S70.261D | Insect bite (nonvenomous), right hip, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S70.261S | Insect bite (nonvenomous), right hip, sequela                    | Diagnosis     | ICD-10-CM |
| S70.262  | Insect bite (nonvenomous), left hip                              | Diagnosis     | ICD-10-CM |
| S70.262A | Insect bite (nonvenomous), left hip, initial encounter           | Diagnosis     | ICD-10-CM |
| S70.262D | Insect bite (nonvenomous), left hip, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S70.262S | Insect bite (nonvenomous), left hip, sequela                     | Diagnosis     | ICD-10-CM |
| S70.269  | Insect bite (nonvenomous), unspecified hip                       | Diagnosis     | ICD-10-CM |
| S70.269A | Insect bite (nonvenomous), unspecified hip, initial encounter    | Diagnosis     | ICD-10-CM |
| S70.269D | Insect bite (nonvenomous), unspecified hip, subsequent encounter | Diagnosis     | ICD-10-CM |
| S70.269S | Insect bite (nonvenomous), unspecified hip, sequela              | Diagnosis     | ICD-10-CM |
| S70.27   | Other superficial bite of hip                                    | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S70.271  | Other superficial bite of hip, right hip                             | Diagnosis     | ICD-10-CM |
| S70.271A | Other superficial bite of hip, right hip, initial encounter          | Diagnosis     | ICD-10-CM |
| S70.271D | Other superficial bite of hip, right hip, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S70.271S | Other superficial bite of hip, right hip, sequela                    | Diagnosis     | ICD-10-CM |
| S70.272  | Other superficial bite of hip, left hip                              | Diagnosis     | ICD-10-CM |
| S70.272A | Other superficial bite of hip, left hip, initial encounter           | Diagnosis     | ICD-10-CM |
| S70.272D | Other superficial bite of hip, left hip, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S70.272S | Other superficial bite of hip, left hip, sequela                     | Diagnosis     | ICD-10-CM |
| S70.279  | Other superficial bite of hip, unspecified hip                       | Diagnosis     | ICD-10-CM |
| S70.279A | Other superficial bite of hip, unspecified hip, initial encounter    | Diagnosis     | ICD-10-CM |
| S70.279D | Other superficial bite of hip, unspecified hip, subsequent encounter | Diagnosis     | ICD-10-CM |
| S70.279S | Other superficial bite of hip, unspecified hip, sequela              | Diagnosis     | ICD-10-CM |
| S70.3    | Other superficial injuries of thigh                                  | Diagnosis     | ICD-10-CM |
| S70.31   | Abrasion of thigh  | Diagnosis     | ICD-10-CM |
| S70.311  | Abrasion, right thigh  | Diagnosis     | ICD-10-CM |
| S70.311A | Abrasion, right thigh, initial encounter                             | Diagnosis     | ICD-10-CM |
| S70.311D | Abrasion, right thigh, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S70.311S | Abrasion, right thigh, sequela                                       | Diagnosis     | ICD-10-CM |
| S70.312  | Abrasion, left thigh   | Diagnosis     | ICD-10-CM |
| S70.312A | Abrasion, left thigh, initial encounter                              | Diagnosis     | ICD-10-CM |
| S70.312D | Abrasion, left thigh, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S70.312S | Abrasion, left thigh, sequela  | Diagnosis     | ICD-10-CM |
| S70.319  | Abrasion, unspecified thigh  | Diagnosis     | ICD-10-CM |
| S70.319A | Abrasion, unspecified thigh, initial encounter                       | Diagnosis     | ICD-10-CM |
| S70.319D | Abrasion, unspecified thigh, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S70.319S | Abrasion, unspecified thigh, sequela                                 | Diagnosis     | ICD-10-CM |
| S70.32   | Blister (nonthermal) of thigh  | Diagnosis     | ICD-10-CM |
| S70.321  | Blister (nonthermal), right thigh                                    | Diagnosis     | ICD-10-CM |
| S70.321A | Blister (nonthermal), right thigh, initial encounter                 | Diagnosis     | ICD-10-CM |
| S70.321D | Blister (nonthermal), right thigh, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S70.321S | Blister (nonthermal), right thigh, sequela                           | Diagnosis     | ICD-10-CM |
| S70.322  | Blister (nonthermal), left thigh                                     | Diagnosis     | ICD-10-CM |
| S70.322A | Blister (nonthermal), left thigh, initial encounter                  | Diagnosis     | ICD-10-CM |
| S70.322D | Blister (nonthermal), left thigh, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S70.322S | Blister (nonthermal), left thigh, sequela                            | Diagnosis     | ICD-10-CM |
| S70.329  | Blister (nonthermal), unspecified thigh                              | Diagnosis     | ICD-10-CM |
| S70.329A | Blister (nonthermal), unspecified thigh, initial encounter           | Diagnosis     | ICD-10-CM |
| S70.329D | Blister (nonthermal), unspecified thigh, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S70.329S | Blister (nonthermal), unspecified thigh, sequela                     | Diagnosis     | ICD-10-CM |
| S70.34   | External constriction of thigh                                       | Diagnosis     | ICD-10-CM |
| S70.341  | External constriction, right thigh                                   | Diagnosis     | ICD-10-CM |
| S70.341A | External constriction, right thigh, initial encounter                | Diagnosis     | ICD-10-CM |
| S70.341D | External constriction, right thigh, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S70.341S | External constriction, right thigh, sequela                          | Diagnosis     | ICD-10-CM |
| S70.342  | External constriction, left thigh                                    | Diagnosis     | ICD-10-CM |
| S70.342A | External constriction, left thigh, initial encounter                 | Diagnosis     | ICD-10-CM |
| S70.342D | External constriction, left thigh, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S70.342S | External constriction, left thigh, sequela                           | Diagnosis     | ICD-10-CM |
| S70.349  | External constriction, unspecified thigh                             | Diagnosis     | ICD-10-CM |
| S70.349A | External constriction, unspecified thigh, initial encounter          | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S70.349D | External constriction, unspecified thigh, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S70.349S | External constriction, unspecified thigh, sequela                  | Diagnosis     | ICD-10-CM |
| S70.35   | Superficial foreign body of thigh                                  | Diagnosis     | ICD-10-CM |
| S70.351  | Superficial foreign body, right thigh                              | Diagnosis     | ICD-10-CM |
| S70.351A | Superficial foreign body, right thigh, initial encounter           | Diagnosis     | ICD-10-CM |
| S70.351D | Superficial foreign body, right thigh, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S70.351S | Superficial foreign body, right thigh, sequela                     | Diagnosis     | ICD-10-CM |
| S70.352  | Superficial foreign body, left thigh                               | Diagnosis     | ICD-10-CM |
| S70.352A | Superficial foreign body, left thigh, initial encounter            | Diagnosis     | ICD-10-CM |
| S70.352D | Superficial foreign body, left thigh, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S70.352S | Superficial foreign body, left thigh, sequela                      | Diagnosis     | ICD-10-CM |
| S70.359  | Superficial foreign body, unspecified thigh                        | Diagnosis     | ICD-10-CM |
| S70.359A | Superficial foreign body, unspecified thigh, initial encounter     | Diagnosis     | ICD-10-CM |
| S70.359D | Superficial foreign body, unspecified thigh, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S70.359S | Superficial foreign body, unspecified thigh, sequela               | Diagnosis     | ICD-10-CM |
| S70.36   | Insect bite (nonvenomous) of thigh                                 | Diagnosis     | ICD-10-CM |
| S70.361  | Insect bite (nonvenomous), right thigh                             | Diagnosis     | ICD-10-CM |
| S70.361A | Insect bite (nonvenomous), right thigh, initial encounter          | Diagnosis     | ICD-10-CM |
| S70.361D | Insect bite (nonvenomous), right thigh, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S70.361S | Insect bite (nonvenomous), right thigh, sequela                    | Diagnosis     | ICD-10-CM |
| S70.362  | Insect bite (nonvenomous), left thigh                              | Diagnosis     | ICD-10-CM |
| S70.362A | Insect bite (nonvenomous), left thigh, initial encounter           | Diagnosis     | ICD-10-CM |
| S70.362D | Insect bite (nonvenomous), left thigh, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S70.362S | Insect bite (nonvenomous), left thigh, sequela                     | Diagnosis     | ICD-10-CM |
| S70.369  | Insect bite (nonvenomous), unspecified thigh                       | Diagnosis     | ICD-10-CM |
| S70.369A | Insect bite (nonvenomous), unspecified thigh, initial encounter    | Diagnosis     | ICD-10-CM |
| S70.369D | Insect bite (nonvenomous), unspecified thigh, subsequent encounter | Diagnosis     | ICD-10-CM |
| S70.369S | Insect bite (nonvenomous), unspecified thigh, sequela              | Diagnosis     | ICD-10-CM |
| S70.37   | Other superficial bite of thigh                                    | Diagnosis     | ICD-10-CM |
| S70.371  | Other superficial bite of right thigh                              | Diagnosis     | ICD-10-CM |
| S70.371A | Other superficial bite of right thigh, initial encounter           | Diagnosis     | ICD-10-CM |
| S70.371D | Other superficial bite of right thigh, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S70.371S | Other superficial bite of right thigh, sequela                     | Diagnosis     | ICD-10-CM |
| S70.372  | Other superficial bite of left thigh                               | Diagnosis     | ICD-10-CM |
| S70.372A | Other superficial bite of left thigh, initial encounter            | Diagnosis     | ICD-10-CM |
| S70.372D | Other superficial bite of left thigh, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S70.372S | Other superficial bite of left thigh, sequela                      | Diagnosis     | ICD-10-CM |
| S70.379  | Other superficial bite of unspecified thigh                        | Diagnosis     | ICD-10-CM |
| S70.379A | Other superficial bite of unspecified thigh, initial encounter     | Diagnosis     | ICD-10-CM |
| S70.379D | Other superficial bite of unspecified thigh, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S70.379S | Other superficial bite of unspecified thigh, sequela               | Diagnosis     | ICD-10-CM |
| S70.9    | Unspecified superficial injury of hip and thigh                    | Diagnosis     | ICD-10-CM |
| S70.91   | Unspecified superficial injury of hip                              | Diagnosis     | ICD-10-CM |
| S70.911  | Unspecified superficial injury of right hip                        | Diagnosis     | ICD-10-CM |
| S70.911A | Unspecified superficial injury of right hip, initial encounter     | Diagnosis     | ICD-10-CM |
| S70.911D | Unspecified superficial injury of right hip, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S70.911S | Unspecified superficial injury of right hip, sequela               | Diagnosis     | ICD-10-CM |
| S70.912  | Unspecified superficial injury of left hip                         | Diagnosis     | ICD-10-CM |
| S70.912A | Unspecified superficial injury of left hip, initial encounter      | Diagnosis     | ICD-10-CM |
| S70.912D | Unspecified superficial injury of left hip, subsequent encounter   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S70.912S | Unspecified superficial injury of left hip, sequela                       | Diagnosis     | ICD-10-CM |
| S70.919  | Unspecified superficial injury of unspecified hip                         | Diagnosis     | ICD-10-CM |
| S70.919A | Unspecified superficial injury of unspecified hip, initial encounter      | Diagnosis     | ICD-10-CM |
| S70.919D | Unspecified superficial injury of unspecified hip, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S70.919S | Unspecified superficial injury of unspecified hip, sequela                | Diagnosis     | ICD-10-CM |
| S70.92   | Unspecified superficial injury of thigh                                   | Diagnosis     | ICD-10-CM |
| S70.921  | Unspecified superficial injury of right thigh                             | Diagnosis     | ICD-10-CM |
| S70.921A | Unspecified superficial injury of right thigh, initial encounter          | Diagnosis     | ICD-10-CM |
| S70.921D | Unspecified superficial injury of right thigh, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S70.921S | Unspecified superficial injury of right thigh, sequela                    | Diagnosis     | ICD-10-CM |
| S70.922  | Unspecified superficial injury of left thigh                              | Diagnosis     | ICD-10-CM |
| S70.922A | Unspecified superficial injury of left thigh, initial encounter           | Diagnosis     | ICD-10-CM |
| S70.922D | Unspecified superficial injury of left thigh, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S70.922S | Unspecified superficial injury of left thigh, sequela                     | Diagnosis     | ICD-10-CM |
| S70.929  | Unspecified superficial injury of unspecified thigh                       | Diagnosis     | ICD-10-CM |
| S70.929A | Unspecified superficial injury of unspecified thigh, initial encounter    | Diagnosis     | ICD-10-CM |
| S70.929D | Unspecified superficial injury of unspecified thigh, subsequent encounter | Diagnosis     | ICD-10-CM |
| S70.929S | Unspecified superficial injury of unspecified thigh, sequela              | Diagnosis     | ICD-10-CM |
| S71      | Open wound of hip and thigh   | Diagnosis     | ICD-10-CM |
| S71.0    | Open wound of hip   | Diagnosis     | ICD-10-CM |
| S71.00   | Unspecified open wound of hip   | Diagnosis     | ICD-10-CM |
| S71.001  | Unspecified open wound, right hip   | Diagnosis     | ICD-10-CM |
| S71.001A | Unspecified open wound, right hip, initial encounter                      | Diagnosis     | ICD-10-CM |
| S71.001D | Unspecified open wound, right hip, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S71.001S | Unspecified open wound, right hip, sequela                                | Diagnosis     | ICD-10-CM |
| S71.002  | Unspecified open wound, left hip  | Diagnosis     | ICD-10-CM |
| S71.002A | Unspecified open wound, left hip, initial encounter                       | Diagnosis     | ICD-10-CM |
| S71.002D | Unspecified open wound, left hip, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S71.002S | Unspecified open wound, left hip, sequela                                 | Diagnosis     | ICD-10-CM |
| S71.009  | Unspecified open wound, unspecified hip                                   | Diagnosis     | ICD-10-CM |
| S71.009A | Unspecified open wound, unspecified hip, initial encounter                | Diagnosis     | ICD-10-CM |
| S71.009D | Unspecified open wound, unspecified hip, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S71.009S | Unspecified open wound, unspecified hip, sequela                          | Diagnosis     | ICD-10-CM |
| S71.01   | Laceration without foreign body of hip                                    | Diagnosis     | ICD-10-CM |
| S71.011  | Laceration without foreign body, right hip                                | Diagnosis     | ICD-10-CM |
| S71.011A | Laceration without foreign body, right hip, initial encounter             | Diagnosis     | ICD-10-CM |
| S71.011D | Laceration without foreign body, right hip, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S71.011S | Laceration without foreign body, right hip, sequela                       | Diagnosis     | ICD-10-CM |
| S71.012  | Laceration without foreign body, left hip                                 | Diagnosis     | ICD-10-CM |
| S71.012A | Laceration without foreign body, left hip, initial encounter              | Diagnosis     | ICD-10-CM |
| S71.012D | Laceration without foreign body, left hip, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S71.012S | Laceration without foreign body, left hip, sequela                        | Diagnosis     | ICD-10-CM |
| S71.019  | Laceration without foreign body, unspecified hip                          | Diagnosis     | ICD-10-CM |
| S71.019A | Laceration without foreign body, unspecified hip, initial encounter       | Diagnosis     | ICD-10-CM |
| S71.019D | Laceration without foreign body, unspecified hip, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S71.019S | Laceration without foreign body, unspecified hip, sequela                 | Diagnosis     | ICD-10-CM |
| S71.02   | Laceration with foreign body of hip                                       | Diagnosis     | ICD-10-CM |
| S71.021  | Laceration with foreign body, right hip                                   | Diagnosis     | ICD-10-CM |
| S71.021A | Laceration with foreign body, right hip, initial encounter                | Diagnosis     | ICD-10-CM |
| S71.021D | Laceration with foreign body, right hip, subsequent encounter             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S71.021S | Laceration with foreign body, right hip, sequela                           | Diagnosis     | ICD-10-CM |
| S71.022  | Laceration with foreign body, left hip                                     | Diagnosis     | ICD-10-CM |
| S71.022A | Laceration with foreign body, left hip, initial encounter                  | Diagnosis     | ICD-10-CM |
| S71.022D | Laceration with foreign body, left hip, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S71.022S | Laceration with foreign body, left hip, sequela                            | Diagnosis     | ICD-10-CM |
| S71.029  | Laceration with foreign body, unspecified hip                              | Diagnosis     | ICD-10-CM |
| S71.029A | Laceration with foreign body, unspecified hip, initial encounter           | Diagnosis     | ICD-10-CM |
| S71.029D | Laceration with foreign body, unspecified hip, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S71.029S | Laceration with foreign body, unspecified hip, sequela                     | Diagnosis     | ICD-10-CM |
| S71.03   | Puncture wound without foreign body of hip                                 | Diagnosis     | ICD-10-CM |
| S71.031  | Puncture wound without foreign body, right hip                             | Diagnosis     | ICD-10-CM |
| S71.031A | Puncture wound without foreign body, right hip, initial encounter          | Diagnosis     | ICD-10-CM |
| S71.031D | Puncture wound without foreign body, right hip, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S71.031S | Puncture wound without foreign body, right hip, sequela                    | Diagnosis     | ICD-10-CM |
| S71.032  | Puncture wound without foreign body, left hip                              | Diagnosis     | ICD-10-CM |
| S71.032A | Puncture wound without foreign body, left hip, initial encounter           | Diagnosis     | ICD-10-CM |
| S71.032D | Puncture wound without foreign body, left hip, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S71.032S | Puncture wound without foreign body, left hip, sequela                     | Diagnosis     | ICD-10-CM |
| S71.039  | Puncture wound without foreign body, unspecified hip                       | Diagnosis     | ICD-10-CM |
| S71.039A | Puncture wound without foreign body, unspecified hip, initial encounter    | Diagnosis     | ICD-10-CM |
| S71.039D | Puncture wound without foreign body, unspecified hip, subsequent encounter | Diagnosis     | ICD-10-CM |
| S71.039S | Puncture wound without foreign body, unspecified hip, sequela              | Diagnosis     | ICD-10-CM |
| S71.04   | Puncture wound with foreign body of hip                                    | Diagnosis     | ICD-10-CM |
| S71.041  | Puncture wound with foreign body, right hip                                | Diagnosis     | ICD-10-CM |
| S71.041A | Puncture wound with foreign body, right hip, initial encounter             | Diagnosis     | ICD-10-CM |
| S71.041D | Puncture wound with foreign body, right hip, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S71.041S | Puncture wound with foreign body, right hip, sequela                       | Diagnosis     | ICD-10-CM |
| S71.042  | Puncture wound with foreign body, left hip                                 | Diagnosis     | ICD-10-CM |
| S71.042A | Puncture wound with foreign body, left hip, initial encounter              | Diagnosis     | ICD-10-CM |
| S71.042D | Puncture wound with foreign body, left hip, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S71.042S | Puncture wound with foreign body, left hip, sequela                        | Diagnosis     | ICD-10-CM |
| S71.049  | Puncture wound with foreign body, unspecified hip                          | Diagnosis     | ICD-10-CM |
| S71.049A | Puncture wound with foreign body, unspecified hip, initial encounter       | Diagnosis     | ICD-10-CM |
| S71.049D | Puncture wound with foreign body, unspecified hip, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S71.049S | Puncture wound with foreign body, unspecified hip, sequela                 | Diagnosis     | ICD-10-CM |
| S71.05   | Open bite of hip   | Diagnosis     | ICD-10-CM |
| S71.051  | Open bite, right hip   | Diagnosis     | ICD-10-CM |
| S71.051A | Open bite, right hip, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S71.051D | Open bite, right hip, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S71.051S | Open bite, right hip, sequela  | Diagnosis     | ICD-10-CM |
| S71.052  | Open bite, left hip  | Diagnosis     | ICD-10-CM |
| S71.052A | Open bite, left hip, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S71.052D | Open bite, left hip, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S71.052S | Open bite, left hip, sequela   | Diagnosis     | ICD-10-CM |
| S71.059  | Open bite, unspecified hip   | Diagnosis     | ICD-10-CM |
| S71.059A | Open bite, unspecified hip, initial encounter                              | Diagnosis     | ICD-10-CM |
| S71.059D | Open bite, unspecified hip, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S71.059S | Open bite, unspecified hip, sequela  | Diagnosis     | ICD-10-CM |
| S71.1    | Open wound of thigh  | Diagnosis     | ICD-10-CM |
| S71.10   | Unspecified open wound of thigh  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S71.101  | Unspecified open wound, right thigh  | Diagnosis     | ICD-10-CM |
| S71.101A | Unspecified open wound, right thigh, initial encounter                       | Diagnosis     | ICD-10-CM |
| S71.101D | Unspecified open wound, right thigh, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S71.101S | Unspecified open wound, right thigh, sequela                                 | Diagnosis     | ICD-10-CM |
| S71.102  | Unspecified open wound, left thigh   | Diagnosis     | ICD-10-CM |
| S71.102A | Unspecified open wound, left thigh, initial encounter                        | Diagnosis     | ICD-10-CM |
| S71.102D | Unspecified open wound, left thigh, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S71.102S | Unspecified open wound, left thigh, sequela                                  | Diagnosis     | ICD-10-CM |
| S71.109  | Unspecified open wound, unspecified thigh                                    | Diagnosis     | ICD-10-CM |
| S71.109A | Unspecified open wound, unspecified thigh, initial encounter                 | Diagnosis     | ICD-10-CM |
| S71.109D | Unspecified open wound, unspecified thigh, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S71.109S | Unspecified open wound, unspecified thigh, sequela                           | Diagnosis     | ICD-10-CM |
| S71.11   | Laceration without foreign body of thigh                                     | Diagnosis     | ICD-10-CM |
| S71.111  | Laceration without foreign body, right thigh                                 | Diagnosis     | ICD-10-CM |
| S71.111A | Laceration without foreign body, right thigh, initial encounter              | Diagnosis     | ICD-10-CM |
| S71.111D | Laceration without foreign body, right thigh, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S71.111S | Laceration without foreign body, right thigh, sequela                        | Diagnosis     | ICD-10-CM |
| S71.112  | Laceration without foreign body, left thigh                                  | Diagnosis     | ICD-10-CM |
| S71.112A | Laceration without foreign body, left thigh, initial encounter               | Diagnosis     | ICD-10-CM |
| S71.112D | Laceration without foreign body, left thigh, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S71.112S | Laceration without foreign body, left thigh, sequela                         | Diagnosis     | ICD-10-CM |
| S71.119  | Laceration without foreign body, unspecified thigh                           | Diagnosis     | ICD-10-CM |
| S71.119A | Laceration without foreign body, unspecified thigh, initial encounter        | Diagnosis     | ICD-10-CM |
| S71.119D | Laceration without foreign body, unspecified thigh, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S71.119S | Laceration without foreign body, unspecified thigh, sequela                  | Diagnosis     | ICD-10-CM |
| S71.12   | Laceration with foreign body of thigh  | Diagnosis     | ICD-10-CM |
| S71.121  | Laceration with foreign body, right thigh                                    | Diagnosis     | ICD-10-CM |
| S71.121A | Laceration with foreign body, right thigh, initial encounter                 | Diagnosis     | ICD-10-CM |
| S71.121D | Laceration with foreign body, right thigh, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S71.121S | Laceration with foreign body, right thigh, sequela                           | Diagnosis     | ICD-10-CM |
| S71.122  | Laceration with foreign body, left thigh                                     | Diagnosis     | ICD-10-CM |
| S71.122A | Laceration with foreign body, left thigh, initial encounter                  | Diagnosis     | ICD-10-CM |
| S71.122D | Laceration with foreign body, left thigh, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S71.122S | Laceration with foreign body, left thigh, sequela                            | Diagnosis     | ICD-10-CM |
| S71.129  | Laceration with foreign body, unspecified thigh                              | Diagnosis     | ICD-10-CM |
| S71.129A | Laceration with foreign body, unspecified thigh, initial encounter           | Diagnosis     | ICD-10-CM |
| S71.129D | Laceration with foreign body, unspecified thigh, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S71.129S | Laceration with foreign body, unspecified thigh, sequela                     | Diagnosis     | ICD-10-CM |
| S71.13   | Puncture wound without foreign body of thigh                                 | Diagnosis     | ICD-10-CM |
| S71.131  | Puncture wound without foreign body, right thigh                             | Diagnosis     | ICD-10-CM |
| S71.131A | Puncture wound without foreign body, right thigh, initial encounter          | Diagnosis     | ICD-10-CM |
| S71.131D | Puncture wound without foreign body, right thigh, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S71.131S | Puncture wound without foreign body, right thigh, sequela                    | Diagnosis     | ICD-10-CM |
| S71.132  | Puncture wound without foreign body, left thigh                              | Diagnosis     | ICD-10-CM |
| S71.132A | Puncture wound without foreign body, left thigh, initial encounter           | Diagnosis     | ICD-10-CM |
| S71.132D | Puncture wound without foreign body, left thigh, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S71.132S | Puncture wound without foreign body, left thigh, sequela                     | Diagnosis     | ICD-10-CM |
| S71.139  | Puncture wound without foreign body, unspecified thigh                       | Diagnosis     | ICD-10-CM |
| S71.139A | Puncture wound without foreign body, unspecified thigh, initial encounter    | Diagnosis     | ICD-10-CM |
| S71.139D | Puncture wound without foreign body, unspecified thigh, subsequent encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S71.139S | Puncture wound without foreign body, unspecified thigh, sequela   | Diagnosis     | ICD-10-CM |
| S71.14   | Puncture wound with foreign body of thigh   | Diagnosis     | ICD-10-CM |
| S71.141  | Puncture wound with foreign body, right thigh   | Diagnosis     | ICD-10-CM |
| S71.141A | Puncture wound with foreign body, right thigh, initial encounter  | Diagnosis     | ICD-10-CM |
| S71.141D | Puncture wound with foreign body, right thigh, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S71.141S | Puncture wound with foreign body, right thigh, sequela  | Diagnosis     | ICD-10-CM |
| S71.142  | Puncture wound with foreign body, left thigh  | Diagnosis     | ICD-10-CM |
| S71.142A | Puncture wound with foreign body, left thigh, initial encounter   | Diagnosis     | ICD-10-CM |
| S71.142D | Puncture wound with foreign body, left thigh, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S71.142S | Puncture wound with foreign body, left thigh, sequela   | Diagnosis     | ICD-10-CM |
| S71.149  | Puncture wound with foreign body, unspecified thigh   | Diagnosis     | ICD-10-CM |
| S71.149A | Puncture wound with foreign body, unspecified thigh, initial encounter  | Diagnosis     | ICD-10-CM |
| S71.149D | Puncture wound with foreign body, unspecified thigh, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S71.149S | Puncture wound with foreign body, unspecified thigh, sequela  | Diagnosis     | ICD-10-CM |
| S71.15   | Open bite of thigh  | Diagnosis     | ICD-10-CM |
| S71.151  | Open bite, right thigh  | Diagnosis     | ICD-10-CM |
| S71.151A | Open bite, right thigh, initial encounter   | Diagnosis     | ICD-10-CM |
| S71.151D | Open bite, right thigh, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S71.151S | Open bite, right thigh, sequela   | Diagnosis     | ICD-10-CM |
| S71.152  | Open bite, left thigh   | Diagnosis     | ICD-10-CM |
| S71.152A | Open bite, left thigh, initial encounter  | Diagnosis     | ICD-10-CM |
| S71.152D | Open bite, left thigh, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S71.152S | Open bite, left thigh, sequela  | Diagnosis     | ICD-10-CM |
| S71.159  | Open bite, unspecified thigh  | Diagnosis     | ICD-10-CM |
| S71.159A | Open bite, unspecified thigh, initial encounter   | Diagnosis     | ICD-10-CM |
| S71.159D | Open bite, unspecified thigh, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S71.159S | Open bite, unspecified thigh, sequela   | Diagnosis     | ICD-10-CM |
| S72      | Fracture of femur   | Diagnosis     | ICD-10-CM |
| S72.0    | Fracture of head and neck of femur  | Diagnosis     | ICD-10-CM |
| S72.00   | Fracture of unspecified part of neck of femur   | Diagnosis     | ICD-10-CM |
| S72.001  | Fracture of unspecified part of neck of right femur   | Diagnosis     | ICD-10-CM |
| S72.001A | Fracture of unspecified part of neck of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.001B | Fracture of unspecified part of neck of right femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.001C | Fracture of unspecified part of neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.001D | Fracture of unspecified part of neck of right femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.001E | Fracture of unspecified part of neck of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.001F | Fracture of unspecified part of neck of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.001G | Fracture of unspecified part of neck of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.001H | Fracture of unspecified part of neck of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.001J | Fracture of unspecified part of neck of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.001K | Fracture of unspecified part of neck of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.001M | Fracture of unspecified part of neck of right femur, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S72.001N | Fracture of unspecified part of neck of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion       | Diagnosis     | ICD-10-CM |
| S72.001P | Fracture of unspecified part of neck of right femur, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S72.001Q | Fracture of unspecified part of neck of right femur, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S72.001R | Fracture of unspecified part of neck of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S72.001S | Fracture of unspecified part of neck of right femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.002  | Fracture of unspecified part of neck of left femur   | Diagnosis     | ICD-10-CM |
| S72.002A | Fracture of unspecified part of neck of left femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.002B | Fracture of unspecified part of neck of left femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.002C | Fracture of unspecified part of neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.002D | Fracture of unspecified part of neck of left femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.002E | Fracture of unspecified part of neck of left femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.002F | Fracture of unspecified part of neck of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.002G | Fracture of unspecified part of neck of left femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.002H | Fracture of unspecified part of neck of left femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.002J | Fracture of unspecified part of neck of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.002K | Fracture of unspecified part of neck of left femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.002M | Fracture of unspecified part of neck of left femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.002N | Fracture of unspecified part of neck of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.002P | Fracture of unspecified part of neck of left femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.002Q | Fracture of unspecified part of neck of left femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.002R | Fracture of unspecified part of neck of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.002S | Fracture of unspecified part of neck of left femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.009  | Fracture of unspecified part of neck of unspecified femur  | Diagnosis     | ICD-10-CM |
| S72.009A | Fracture of unspecified part of neck of unspecified femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.009B | Fracture of unspecified part of neck of unspecified femur, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |
| S72.009C | Fracture of unspecified part of neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.009D | Fracture of unspecified part of neck of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.009E | Fracture of unspecified part of neck of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.009F | Fracture of unspecified part of neck of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.009G | Fracture of unspecified part of neck of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.009H | Fracture of unspecified part of neck of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.009J | Fracture of unspecified part of neck of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.009K | Fracture of unspecified part of neck of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.009M | Fracture of unspecified part of neck of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.009N | Fracture of unspecified part of neck of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.009P | Fracture of unspecified part of neck of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.009Q | Fracture of unspecified part of neck of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.009R | Fracture of unspecified part of neck of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.009S | Fracture of unspecified part of neck of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.01   | Unspecified intracapsular fracture of femur   | Diagnosis     | ICD-10-CM |
| S72.011  | Unspecified intracapsular fracture of right femur   | Diagnosis     | ICD-10-CM |
| S72.011A | Unspecified intracapsular fracture of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.011B | Unspecified intracapsular fracture of right femur, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S72.011C | Unspecified intracapsular fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                                 | Diagnosis     | ICD-10-CM |
| S72.011D | Unspecified intracapsular fracture of right femur, subsequent encounter for closed fracture with routine healing                                | Diagnosis     | ICD-10-CM |
| S72.011E | Unspecified intracapsular fracture of right femur, subsequent encounter for open fracture type I or II with routine healing                     | Diagnosis     | ICD-10-CM |
| S72.011F | Unspecified intracapsular fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing         | Diagnosis     | ICD-10-CM |
| S72.011G | Unspecified intracapsular fracture of right femur, subsequent encounter for closed fracture with delayed healing                                | Diagnosis     | ICD-10-CM |
| S72.011H | Unspecified intracapsular fracture of right femur, subsequent encounter for open fracture type I or II with delayed healing                     | Diagnosis     | ICD-10-CM |
| S72.011J | Unspecified intracapsular fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing         | Diagnosis     | ICD-10-CM |
| S72.011K | Unspecified intracapsular fracture of right femur, subsequent encounter for closed fracture with nonunion                                       | Diagnosis     | ICD-10-CM |
| S72.011M | Unspecified intracapsular fracture of right femur, subsequent encounter for open fracture type I or II with nonunion                            | Diagnosis     | ICD-10-CM |
| S72.011N | Unspecified intracapsular fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.011P | Unspecified intracapsular fracture of right femur, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S72.011Q | Unspecified intracapsular fracture of right femur, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S72.011R | Unspecified intracapsular fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S72.011S | Unspecified intracapsular fracture of right femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.012  | Unspecified intracapsular fracture of left femur   | Diagnosis     | ICD-10-CM |
| S72.012A | Unspecified intracapsular fracture of left femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.012B | Unspecified intracapsular fracture of left femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.012C | Unspecified intracapsular fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.012D | Unspecified intracapsular fracture of left femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.012E | Unspecified intracapsular fracture of left femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.012F | Unspecified intracapsular fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.012G | Unspecified intracapsular fracture of left femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.012H | Unspecified intracapsular fracture of left femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.012J | Unspecified intracapsular fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.012K | Unspecified intracapsular fracture of left femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.012M | Unspecified intracapsular fracture of left femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.012N | Unspecified intracapsular fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.012P | Unspecified intracapsular fracture of left femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.012Q | Unspecified intracapsular fracture of left femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.012R | Unspecified intracapsular fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.012S | Unspecified intracapsular fracture of left femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.019  | Unspecified intracapsular fracture of unspecified femur  | Diagnosis     | ICD-10-CM |
| S72.019A | Unspecified intracapsular fracture of unspecified femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.019B | Unspecified intracapsular fracture of unspecified femur, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |
| S72.019C | Unspecified intracapsular fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                  | Diagnosis     | ICD-10-CM |
| S72.019D | Unspecified intracapsular fracture of unspecified femur, subsequent encounter for closed fracture with routine healing                 | Diagnosis     | ICD-10-CM |
| S72.019E | Unspecified intracapsular fracture of unspecified femur, subsequent encounter for open fracture type I or II with routine healing      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.019F | Unspecified intracapsular fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing             | Diagnosis     | ICD-10-CM |
| S72.019G | Unspecified intracapsular fracture of unspecified femur, subsequent encounter for closed fracture with delayed healing                                    | Diagnosis     | ICD-10-CM |
| S72.019H | Unspecified intracapsular fracture of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing                         | Diagnosis     | ICD-10-CM |
| S72.019J | Unspecified intracapsular fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.019K | Unspecified intracapsular fracture of unspecified femur, subsequent encounter for closed fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S72.019M | Unspecified intracapsular fracture of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                                | Diagnosis     | ICD-10-CM |
| S72.019N | Unspecified intracapsular fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.019P | Unspecified intracapsular fracture of unspecified femur, subsequent encounter for closed fracture with malunion   | Diagnosis     | ICD-10-CM |
| S72.019Q | Unspecified intracapsular fracture of unspecified femur, subsequent encounter for open fracture type I or II with malunion                                | Diagnosis     | ICD-10-CM |
| S72.019R | Unspecified intracapsular fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion                    | Diagnosis     | ICD-10-CM |
| S72.019S | Unspecified intracapsular fracture of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.02   | Fracture of epiphysis (separation) (upper) of femur   | Diagnosis     | ICD-10-CM |
| S72.021  | Displaced fracture of epiphysis (separation) (upper) of right femur   | Diagnosis     | ICD-10-CM |
| S72.021A | Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.021B | Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.021C | Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.021D | Displaced fracture of epiphysis (separation) (upper) of right femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.021E | Displaced fracture of epiphysis (separation) (upper) of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.021F | Displaced fracture of epiphysis (separation) (upper) of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.021G | Displaced fracture of epiphysis (separation) (upper) of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.021H | Displaced fracture of epiphysis (separation) (upper) of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.021J | Displaced fracture of epiphysis (separation) (upper) of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.021K | Displaced fracture of epiphysis (separation) (upper) of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.021M | Displaced fracture of epiphysis (separation) (upper) of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.021N | Displaced fracture of epiphysis (separation) (upper) of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.021P | Displaced fracture of epiphysis (separation) (upper) of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.021Q | Displaced fracture of epiphysis (separation) (upper) of right femur, subsequent encounter for open fracture type I or II with malunion                          | Diagnosis     | ICD-10-CM |
| S72.021R | Displaced fracture of epiphysis (separation) (upper) of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion              | Diagnosis     | ICD-10-CM |
| S72.021S | Displaced fracture of epiphysis (separation) (upper) of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.022  | Displaced fracture of epiphysis (separation) (upper) of left femur  | Diagnosis     | ICD-10-CM |
| S72.022A | Displaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.022B | Displaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.022C | Displaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S72.022D | Displaced fracture of epiphysis (separation) (upper) of left femur, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S72.022E | Displaced fracture of epiphysis (separation) (upper) of left femur, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S72.022F | Displaced fracture of epiphysis (separation) (upper) of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S72.022G | Displaced fracture of epiphysis (separation) (upper) of left femur, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S72.022H | Displaced fracture of epiphysis (separation) (upper) of left femur, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S72.022J | Displaced fracture of epiphysis (separation) (upper) of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S72.022K | Displaced fracture of epiphysis (separation) (upper) of left femur, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S72.022M | Displaced fracture of epiphysis (separation) (upper) of left femur, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S72.022N | Displaced fracture of epiphysis (separation) (upper) of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.022P | Displaced fracture of epiphysis (separation) (upper) of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.022Q | Displaced fracture of epiphysis (separation) (upper) of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.022R | Displaced fracture of epiphysis (separation) (upper) of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.022S | Displaced fracture of epiphysis (separation) (upper) of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.023  | Displaced fracture of epiphysis (separation) (upper) of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.023A | Displaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.023B | Displaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.023C | Displaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.023D | Displaced fracture of epiphysis (separation) (upper) of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.023E | Displaced fracture of epiphysis (separation) (upper) of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.023F | Displaced fracture of epiphysis (separation) (upper) of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.023G | Displaced fracture of epiphysis (separation) (upper) of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.023H | Displaced fracture of epiphysis (separation) (upper) of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.023J | Displaced fracture of epiphysis (separation) (upper) of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.023K | Displaced fracture of epiphysis (separation) (upper) of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.023M | Displaced fracture of epiphysis (separation) (upper) of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.023N | Displaced fracture of epiphysis (separation) (upper) of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.023P | Displaced fracture of epiphysis (separation) (upper) of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.023Q | Displaced fracture of epiphysis (separation) (upper) of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.023R | Displaced fracture of epiphysis (separation) (upper) of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.023S | Displaced fracture of epiphysis (separation) (upper) of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.024  | Nondisplaced fracture of epiphysis (separation) (upper) of right femur  | Diagnosis     | ICD-10-CM |
| S72.024A | Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.024B | Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.024C | Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S72.024D | Nondisplaced fracture of epiphysis (separation) (upper) of right femur, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S72.024E | Nondisplaced fracture of epiphysis (separation) (upper) of right femur, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S72.024F | Nondisplaced fracture of epiphysis (separation) (upper) of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S72.024G | Nondisplaced fracture of epiphysis (separation) (upper) of right femur, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S72.024H | Nondisplaced fracture of epiphysis (separation) (upper) of right femur, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S72.024J | Nondisplaced fracture of epiphysis (separation) (upper) of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S72.024K | Nondisplaced fracture of epiphysis (separation) (upper) of right femur, subsequent encounter for closed fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S72.024M | Nondisplaced fracture of epiphysis (separation) (upper) of right femur, subsequent encounter for open fracture type I or II with nonunion                       | Diagnosis     | ICD-10-CM |
| S72.024N | Nondisplaced fracture of epiphysis (separation) (upper) of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion           | Diagnosis     | ICD-10-CM |
| S72.024P | Nondisplaced fracture of epiphysis (separation) (upper) of right femur, subsequent encounter for closed fracture with malunion                                  | Diagnosis     | ICD-10-CM |
| S72.024Q | Nondisplaced fracture of epiphysis (separation) (upper) of right femur, subsequent encounter for open fracture type I or II with malunion                       | Diagnosis     | ICD-10-CM |
| S72.024R | Nondisplaced fracture of epiphysis (separation) (upper) of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.024S | Nondisplaced fracture of epiphysis (separation) (upper) of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.025  | Nondisplaced fracture of epiphysis (separation) (upper) of left femur  | Diagnosis     | ICD-10-CM |
| S72.025A | Nondisplaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.025B | Nondisplaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.025C | Nondisplaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S72.025D | Nondisplaced fracture of epiphysis (separation) (upper) of left femur, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S72.025E | Nondisplaced fracture of epiphysis (separation) (upper) of left femur, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S72.025F | Nondisplaced fracture of epiphysis (separation) (upper) of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S72.025G | Nondisplaced fracture of epiphysis (separation) (upper) of left femur, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S72.025H | Nondisplaced fracture of epiphysis (separation) (upper) of left femur, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S72.025J | Nondisplaced fracture of epiphysis (separation) (upper) of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S72.025K | Nondisplaced fracture of epiphysis (separation) (upper) of left femur, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S72.025M | Nondisplaced fracture of epiphysis (separation) (upper) of left femur, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S72.025N | Nondisplaced fracture of epiphysis (separation) (upper) of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.025P | Nondisplaced fracture of epiphysis (separation) (upper) of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.025Q | Nondisplaced fracture of epiphysis (separation) (upper) of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.025R | Nondisplaced fracture of epiphysis (separation) (upper) of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.025S | Nondisplaced fracture of epiphysis (separation) (upper) of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.026  | Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.026A | Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.026B | Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.026C | Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.026D | Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.026E | Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.026F | Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.026G | Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.026H | Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.026J | Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.026K | Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S72.026M | Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S72.026N | Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.026P | Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S72.026Q | Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S72.026R | Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.026S | Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.03   | Midcervical fracture of femur  | Diagnosis     | ICD-10-CM |
| S72.031  | Displaced midcervical fracture of right femur  | Diagnosis     | ICD-10-CM |
| S72.031A | Displaced midcervical fracture of right femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.031B | Displaced midcervical fracture of right femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.031C | Displaced midcervical fracture of right femur, initial encounter for open fracture type IIIA, IIB, or IIC  | Diagnosis     | ICD-10-CM |
| S72.031D | Displaced midcervical fracture of right femur, subsequent encounter for closed fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S72.031E | Displaced midcervical fracture of right femur, subsequent encounter for open fracture type I or II with routine healing  | Diagnosis     | ICD-10-CM |
| S72.031F | Displaced midcervical fracture of right femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing                                | Diagnosis     | ICD-10-CM |
| S72.031G | Displaced midcervical fracture of right femur, subsequent encounter for closed fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S72.031H | Displaced midcervical fracture of right femur, subsequent encounter for open fracture type I or II with delayed healing  | Diagnosis     | ICD-10-CM |
| S72.031J | Displaced midcervical fracture of right femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing                                | Diagnosis     | ICD-10-CM |
| S72.031K | Displaced midcervical fracture of right femur, subsequent encounter for closed fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S72.031M | Displaced midcervical fracture of right femur, subsequent encounter for open fracture type I or II with nonunion   | Diagnosis     | ICD-10-CM |
| S72.031N | Displaced midcervical fracture of right femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion                                       | Diagnosis     | ICD-10-CM |
| S72.031P | Displaced midcervical fracture of right femur, subsequent encounter for closed fracture with malunion  | Diagnosis     | ICD-10-CM |
| S72.031Q | Displaced midcervical fracture of right femur, subsequent encounter for open fracture type I or II with malunion   | Diagnosis     | ICD-10-CM |
| S72.031R | Displaced midcervical fracture of right femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion                                       | Diagnosis     | ICD-10-CM |
| S72.031S | Displaced midcervical fracture of right femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.032  | Displaced midcervical fracture of left femur   | Diagnosis     | ICD-10-CM |
| S72.032A | Displaced midcervical fracture of left femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.032B | Displaced midcervical fracture of left femur, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.032C | Displaced midcervical fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S72.032D | Displaced midcervical fracture of left femur, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S72.032E | Displaced midcervical fracture of left femur, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S72.032F | Displaced midcervical fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S72.032G | Displaced midcervical fracture of left femur, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S72.032H | Displaced midcervical fracture of left femur, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S72.032J | Displaced midcervical fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S72.032K | Displaced midcervical fracture of left femur, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S72.032M | Displaced midcervical fracture of left femur, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S72.032N | Displaced midcervical fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.032P | Displaced midcervical fracture of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.032Q | Displaced midcervical fracture of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.032R | Displaced midcervical fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.032S | Displaced midcervical fracture of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.033  | Displaced midcervical fracture of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.033A | Displaced midcervical fracture of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.033B | Displaced midcervical fracture of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.033C | Displaced midcervical fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.033D | Displaced midcervical fracture of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.033E | Displaced midcervical fracture of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.033F | Displaced midcervical fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.033G | Displaced midcervical fracture of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.033H | Displaced midcervical fracture of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.033J | Displaced midcervical fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.033K | Displaced midcervical fracture of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.033M | Displaced midcervical fracture of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.033N | Displaced midcervical fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion     | Diagnosis     | ICD-10-CM |
| S72.033P | Displaced midcervical fracture of unspecified femur, subsequent encounter for closed fracture with malunion                            | Diagnosis     | ICD-10-CM |
| S72.033Q | Displaced midcervical fracture of unspecified femur, subsequent encounter for open fracture type I or II with malunion                 | Diagnosis     | ICD-10-CM |
| S72.033R | Displaced midcervical fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion     | Diagnosis     | ICD-10-CM |
| S72.033S | Displaced midcervical fracture of unspecified femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.034  | Nondisplaced midcervical fracture of right femur   | Diagnosis     | ICD-10-CM |
| S72.034A | Nondisplaced midcervical fracture of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.034B | Nondisplaced midcervical fracture of right femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.034C | Nondisplaced midcervical fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.034D | Nondisplaced midcervical fracture of right femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.034E | Nondisplaced midcervical fracture of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.034F | Nondisplaced midcervical fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.034G | Nondisplaced midcervical fracture of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.034H | Nondisplaced midcervical fracture of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.034J | Nondisplaced midcervical fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.034K | Nondisplaced midcervical fracture of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.034M | Nondisplaced midcervical fracture of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.034N | Nondisplaced midcervical fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.034P | Nondisplaced midcervical fracture of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.034Q | Nondisplaced midcervical fracture of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.034R | Nondisplaced midcervical fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.034S | Nondisplaced midcervical fracture of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.035  | Nondisplaced midcervical fracture of left femur  | Diagnosis     | ICD-10-CM |
| S72.035A | Nondisplaced midcervical fracture of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.035B | Nondisplaced midcervical fracture of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.035C | Nondisplaced midcervical fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.035D | Nondisplaced midcervical fracture of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.035E | Nondisplaced midcervical fracture of left femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.035F | Nondisplaced midcervical fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S72.035G | Nondisplaced midcervical fracture of left femur, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S72.035H | Nondisplaced midcervical fracture of left femur, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S72.035J | Nondisplaced midcervical fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S72.035K | Nondisplaced midcervical fracture of left femur, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S72.035M | Nondisplaced midcervical fracture of left femur, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S72.035N | Nondisplaced midcervical fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.035P | Nondisplaced midcervical fracture of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.035Q | Nondisplaced midcervical fracture of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.035R | Nondisplaced midcervical fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.035S | Nondisplaced midcervical fracture of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.036  | Nondisplaced midcervical fracture of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.036A | Nondisplaced midcervical fracture of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.036B | Nondisplaced midcervical fracture of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.036C | Nondisplaced midcervical fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.036D | Nondisplaced midcervical fracture of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.036E | Nondisplaced midcervical fracture of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.036F | Nondisplaced midcervical fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.036G | Nondisplaced midcervical fracture of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.036H | Nondisplaced midcervical fracture of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.036J | Nondisplaced midcervical fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.036K | Nondisplaced midcervical fracture of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.036M | Nondisplaced midcervical fracture of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.036N | Nondisplaced midcervical fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.036P | Nondisplaced midcervical fracture of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.036Q | Nondisplaced midcervical fracture of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.036R | Nondisplaced midcervical fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion   | Diagnosis     | ICD-10-CM |
| S72.036S | Nondisplaced midcervical fracture of unspecified femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.04   | Fracture of base of neck of femur   | Diagnosis     | ICD-10-CM |
| S72.041  | Displaced fracture of base of neck of right femur   | Diagnosis     | ICD-10-CM |
| S72.041A | Displaced fracture of base of neck of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.041B | Displaced fracture of base of neck of right femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.041C | Displaced fracture of base of neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.041D | Displaced fracture of base of neck of right femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.041E | Displaced fracture of base of neck of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.041F | Displaced fracture of base of neck of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.041G | Displaced fracture of base of neck of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.041H | Displaced fracture of base of neck of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.041J | Displaced fracture of base of neck of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.041K | Displaced fracture of base of neck of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.041M | Displaced fracture of base of neck of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.041N | Displaced fracture of base of neck of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.041P | Displaced fracture of base of neck of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.041Q | Displaced fracture of base of neck of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.041R | Displaced fracture of base of neck of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.041S | Displaced fracture of base of neck of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.042  | Displaced fracture of base of neck of left femur  | Diagnosis     | ICD-10-CM |
| S72.042A | Displaced fracture of base of neck of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.042B | Displaced fracture of base of neck of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.042C | Displaced fracture of base of neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.042D | Displaced fracture of base of neck of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.042E | Displaced fracture of base of neck of left femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S72.042F | Displaced fracture of base of neck of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S72.042G | Displaced fracture of base of neck of left femur, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.042H | Displaced fracture of base of neck of left femur, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S72.042J | Displaced fracture of base of neck of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S72.042K | Displaced fracture of base of neck of left femur, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S72.042M | Displaced fracture of base of neck of left femur, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S72.042N | Displaced fracture of base of neck of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.042P | Displaced fracture of base of neck of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.042Q | Displaced fracture of base of neck of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.042R | Displaced fracture of base of neck of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.042S | Displaced fracture of base of neck of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.043  | Displaced fracture of base of neck of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.043A | Displaced fracture of base of neck of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.043B | Displaced fracture of base of neck of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.043C | Displaced fracture of base of neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.043D | Displaced fracture of base of neck of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.043E | Displaced fracture of base of neck of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.043F | Displaced fracture of base of neck of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.043G | Displaced fracture of base of neck of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.043H | Displaced fracture of base of neck of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.043J | Displaced fracture of base of neck of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.043K | Displaced fracture of base of neck of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.043M | Displaced fracture of base of neck of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.043N | Displaced fracture of base of neck of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.043P | Displaced fracture of base of neck of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.043Q | Displaced fracture of base of neck of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.043R | Displaced fracture of base of neck of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.043S | Displaced fracture of base of neck of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.044  | Nondisplaced fracture of base of neck of right femur  | Diagnosis     | ICD-10-CM |
| S72.044A | Nondisplaced fracture of base of neck of right femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.044B | Nondisplaced fracture of base of neck of right femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.044C | Nondisplaced fracture of base of neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.044D | Nondisplaced fracture of base of neck of right femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.044E | Nondisplaced fracture of base of neck of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.044F | Nondisplaced fracture of base of neck of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.044G | Nondisplaced fracture of base of neck of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.044H | Nondisplaced fracture of base of neck of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.044J | Nondisplaced fracture of base of neck of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.044K | Nondisplaced fracture of base of neck of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.044M | Nondisplaced fracture of base of neck of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.044N | Nondisplaced fracture of base of neck of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.044P | Nondisplaced fracture of base of neck of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.044Q | Nondisplaced fracture of base of neck of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.044R | Nondisplaced fracture of base of neck of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.044S | Nondisplaced fracture of base of neck of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.045  | Nondisplaced fracture of base of neck of left femur  | Diagnosis     | ICD-10-CM |
| S72.045A | Nondisplaced fracture of base of neck of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.045B | Nondisplaced fracture of base of neck of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.045C | Nondisplaced fracture of base of neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.045D | Nondisplaced fracture of base of neck of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.045E | Nondisplaced fracture of base of neck of left femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S72.045F | Nondisplaced fracture of base of neck of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S72.045G | Nondisplaced fracture of base of neck of left femur, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S72.045H | Nondisplaced fracture of base of neck of left femur, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S72.045J | Nondisplaced fracture of base of neck of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S72.045K | Nondisplaced fracture of base of neck of left femur, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.045M | Nondisplaced fracture of base of neck of left femur, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S72.045N | Nondisplaced fracture of base of neck of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.045P | Nondisplaced fracture of base of neck of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.045Q | Nondisplaced fracture of base of neck of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.045R | Nondisplaced fracture of base of neck of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.045S | Nondisplaced fracture of base of neck of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.046  | Nondisplaced fracture of base of neck of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.046A | Nondisplaced fracture of base of neck of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.046B | Nondisplaced fracture of base of neck of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.046C | Nondisplaced fracture of base of neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.046D | Nondisplaced fracture of base of neck of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.046E | Nondisplaced fracture of base of neck of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.046F | Nondisplaced fracture of base of neck of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.046G | Nondisplaced fracture of base of neck of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.046H | Nondisplaced fracture of base of neck of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.046J | Nondisplaced fracture of base of neck of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.046K | Nondisplaced fracture of base of neck of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.046M | Nondisplaced fracture of base of neck of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.046N | Nondisplaced fracture of base of neck of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.046P | Nondisplaced fracture of base of neck of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.046Q | Nondisplaced fracture of base of neck of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.046R | Nondisplaced fracture of base of neck of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.046S | Nondisplaced fracture of base of neck of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.05   | Unspecified fracture of head of femur  | Diagnosis     | ICD-10-CM |
| S72.051  | Unspecified fracture of head of right femur  | Diagnosis     | ICD-10-CM |
| S72.051A | Unspecified fracture of head of right femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.051B | Unspecified fracture of head of right femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.051C | Unspecified fracture of head of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.051D | Unspecified fracture of head of right femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.051E | Unspecified fracture of head of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.051F | Unspecified fracture of head of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.051G | Unspecified fracture of head of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.051H | Unspecified fracture of head of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.051J | Unspecified fracture of head of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.051K | Unspecified fracture of head of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.051M | Unspecified fracture of head of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.051N | Unspecified fracture of head of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.051P | Unspecified fracture of head of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.051Q | Unspecified fracture of head of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.051R | Unspecified fracture of head of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.051S | Unspecified fracture of head of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.052  | Unspecified fracture of head of left femur  | Diagnosis     | ICD-10-CM |
| S72.052A | Unspecified fracture of head of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.052B | Unspecified fracture of head of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.052C | Unspecified fracture of head of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.052D | Unspecified fracture of head of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.052E | Unspecified fracture of head of left femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S72.052F | Unspecified fracture of head of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S72.052G | Unspecified fracture of head of left femur, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S72.052H | Unspecified fracture of head of left femur, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S72.052J | Unspecified fracture of head of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S72.052K | Unspecified fracture of head of left femur, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S72.052M | Unspecified fracture of head of left femur, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S72.052N | Unspecified fracture of head of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S72.052P | Unspecified fracture of head of left femur, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.052Q | Unspecified fracture of head of left femur, subsequent encounter for open fracture type I or II with malunion                             | Diagnosis     | ICD-10-CM |
| S72.052R | Unspecified fracture of head of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion                 | Diagnosis     | ICD-10-CM |
| S72.052S | Unspecified fracture of head of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.059  | Unspecified fracture of head of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.059A | Unspecified fracture of head of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.059B | Unspecified fracture of head of unspecified femur, initial encounter for open fracture type I or II                                       | Diagnosis     | ICD-10-CM |
| S72.059C | Unspecified fracture of head of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                           | Diagnosis     | ICD-10-CM |
| S72.059D | Unspecified fracture of head of unspecified femur, subsequent encounter for closed fracture with routine healing                          | Diagnosis     | ICD-10-CM |
| S72.059E | Unspecified fracture of head of unspecified femur, subsequent encounter for open fracture type I or II with routine healing               | Diagnosis     | ICD-10-CM |
| S72.059F | Unspecified fracture of head of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing   | Diagnosis     | ICD-10-CM |
| S72.059G | Unspecified fracture of head of unspecified femur, subsequent encounter for closed fracture with delayed healing                          | Diagnosis     | ICD-10-CM |
| S72.059H | Unspecified fracture of head of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing               | Diagnosis     | ICD-10-CM |
| S72.059J | Unspecified fracture of head of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing   | Diagnosis     | ICD-10-CM |
| S72.059K | Unspecified fracture of head of unspecified femur, subsequent encounter for closed fracture with nonunion                                 | Diagnosis     | ICD-10-CM |
| S72.059M | Unspecified fracture of head of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                      | Diagnosis     | ICD-10-CM |
| S72.059N | Unspecified fracture of head of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion          | Diagnosis     | ICD-10-CM |
| S72.059P | Unspecified fracture of head of unspecified femur, subsequent encounter for closed fracture with malunion                                 | Diagnosis     | ICD-10-CM |
| S72.059Q | Unspecified fracture of head of unspecified femur, subsequent encounter for open fracture type I or II with malunion                      | Diagnosis     | ICD-10-CM |
| S72.059R | Unspecified fracture of head of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion          | Diagnosis     | ICD-10-CM |
| S72.059S | Unspecified fracture of head of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.06   | Articular fracture of head of femur   | Diagnosis     | ICD-10-CM |
| S72.061  | Displaced articular fracture of head of right femur   | Diagnosis     | ICD-10-CM |
| S72.061A | Displaced articular fracture of head of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.061B | Displaced articular fracture of head of right femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.061C | Displaced articular fracture of head of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.061D | Displaced articular fracture of head of right femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.061E | Displaced articular fracture of head of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.061F | Displaced articular fracture of head of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.061G | Displaced articular fracture of head of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.061H | Displaced articular fracture of head of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.061J | Displaced articular fracture of head of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.061K | Displaced articular fracture of head of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.061M | Displaced articular fracture of head of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.061N | Displaced articular fracture of head of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.061P | Displaced articular fracture of head of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.061Q | Displaced articular fracture of head of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.061R | Displaced articular fracture of head of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.061S | Displaced articular fracture of head of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.062  | Displaced articular fracture of head of left femur  | Diagnosis     | ICD-10-CM |
| S72.062A | Displaced articular fracture of head of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.062B | Displaced articular fracture of head of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.062C | Displaced articular fracture of head of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.062D | Displaced articular fracture of head of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.062E | Displaced articular fracture of head of left femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S72.062F | Displaced articular fracture of head of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S72.062G | Displaced articular fracture of head of left femur, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S72.062H | Displaced articular fracture of head of left femur, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S72.062J | Displaced articular fracture of head of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S72.062K | Displaced articular fracture of head of left femur, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S72.062M | Displaced articular fracture of head of left femur, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S72.062N | Displaced articular fracture of head of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S72.062P | Displaced articular fracture of head of left femur, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S72.062Q | Displaced articular fracture of head of left femur, subsequent encounter for open fracture type I or II with malunion                     | Diagnosis     | ICD-10-CM |
| S72.062R | Displaced articular fracture of head of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion         | Diagnosis     | ICD-10-CM |
| S72.062S | Displaced articular fracture of head of left femur, sequela   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.063  | Displaced articular fracture of head of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.063A | Displaced articular fracture of head of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.063B | Displaced articular fracture of head of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.063C | Displaced articular fracture of head of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.063D | Displaced articular fracture of head of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.063E | Displaced articular fracture of head of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.063F | Displaced articular fracture of head of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.063G | Displaced articular fracture of head of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.063H | Displaced articular fracture of head of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.063J | Displaced articular fracture of head of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.063K | Displaced articular fracture of head of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.063M | Displaced articular fracture of head of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.063N | Displaced articular fracture of head of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.063P | Displaced articular fracture of head of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.063Q | Displaced articular fracture of head of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.063R | Displaced articular fracture of head of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.063S | Displaced articular fracture of head of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.064  | Nondisplaced articular fracture of head of right femur  | Diagnosis     | ICD-10-CM |
| S72.064A | Nondisplaced articular fracture of head of right femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.064B | Nondisplaced articular fracture of head of right femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.064C | Nondisplaced articular fracture of head of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S72.064D | Nondisplaced articular fracture of head of right femur, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S72.064E | Nondisplaced articular fracture of head of right femur, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S72.064F | Nondisplaced articular fracture of head of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S72.064G | Nondisplaced articular fracture of head of right femur, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S72.064H | Nondisplaced articular fracture of head of right femur, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S72.064J | Nondisplaced articular fracture of head of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.064K | Nondisplaced articular fracture of head of right femur, subsequent encounter for closed fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S72.064M | Nondisplaced articular fracture of head of right femur, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S72.064N | Nondisplaced articular fracture of head of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion       | Diagnosis     | ICD-10-CM |
| S72.064P | Nondisplaced articular fracture of head of right femur, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S72.064Q | Nondisplaced articular fracture of head of right femur, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S72.064R | Nondisplaced articular fracture of head of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S72.064S | Nondisplaced articular fracture of head of right femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.065  | Nondisplaced articular fracture of head of left femur   | Diagnosis     | ICD-10-CM |
| S72.065A | Nondisplaced articular fracture of head of left femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.065B | Nondisplaced articular fracture of head of left femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.065C | Nondisplaced articular fracture of head of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.065D | Nondisplaced articular fracture of head of left femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.065E | Nondisplaced articular fracture of head of left femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.065F | Nondisplaced articular fracture of head of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.065G | Nondisplaced articular fracture of head of left femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.065H | Nondisplaced articular fracture of head of left femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.065J | Nondisplaced articular fracture of head of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.065K | Nondisplaced articular fracture of head of left femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.065M | Nondisplaced articular fracture of head of left femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.065N | Nondisplaced articular fracture of head of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.065P | Nondisplaced articular fracture of head of left femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.065Q | Nondisplaced articular fracture of head of left femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.065R | Nondisplaced articular fracture of head of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.065S | Nondisplaced articular fracture of head of left femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.066  | Nondisplaced articular fracture of head of unspecified femur  | Diagnosis     | ICD-10-CM |
| S72.066A | Nondisplaced articular fracture of head of unspecified femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.066B | Nondisplaced articular fracture of head of unspecified femur, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.066C | Nondisplaced articular fracture of head of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.066D | Nondisplaced articular fracture of head of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.066E | Nondisplaced articular fracture of head of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.066F | Nondisplaced articular fracture of head of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.066G | Nondisplaced articular fracture of head of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.066H | Nondisplaced articular fracture of head of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.066J | Nondisplaced articular fracture of head of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.066K | Nondisplaced articular fracture of head of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.066M | Nondisplaced articular fracture of head of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.066N | Nondisplaced articular fracture of head of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.066P | Nondisplaced articular fracture of head of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.066Q | Nondisplaced articular fracture of head of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.066R | Nondisplaced articular fracture of head of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.066S | Nondisplaced articular fracture of head of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.09   | Other fracture of head and neck of femur   | Diagnosis     | ICD-10-CM |
| S72.091  | Other fracture of head and neck of right femur   | Diagnosis     | ICD-10-CM |
| S72.091A | Other fracture of head and neck of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.091B | Other fracture of head and neck of right femur, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S72.091C | Other fracture of head and neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                                       | Diagnosis     | ICD-10-CM |
| S72.091D | Other fracture of head and neck of right femur, subsequent encounter for closed fracture with routine healing                                      | Diagnosis     | ICD-10-CM |
| S72.091E | Other fracture of head and neck of right femur, subsequent encounter for open fracture type I or II with routine healing                           | Diagnosis     | ICD-10-CM |
| S72.091F | Other fracture of head and neck of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing               | Diagnosis     | ICD-10-CM |
| S72.091G | Other fracture of head and neck of right femur, subsequent encounter for closed fracture with delayed healing                                      | Diagnosis     | ICD-10-CM |
| S72.091H | Other fracture of head and neck of right femur, subsequent encounter for open fracture type I or II with delayed healing                           | Diagnosis     | ICD-10-CM |
| S72.091J | Other fracture of head and neck of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing               | Diagnosis     | ICD-10-CM |
| S72.091K | Other fracture of head and neck of right femur, subsequent encounter for closed fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S72.091M | Other fracture of head and neck of right femur, subsequent encounter for open fracture type I or II with nonunion                                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.091N | Other fracture of head and neck of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion       | Diagnosis     | ICD-10-CM |
| S72.091P | Other fracture of head and neck of right femur, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S72.091Q | Other fracture of head and neck of right femur, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S72.091R | Other fracture of head and neck of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S72.091S | Other fracture of head and neck of right femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.092  | Other fracture of head and neck of left femur   | Diagnosis     | ICD-10-CM |
| S72.092A | Other fracture of head and neck of left femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.092B | Other fracture of head and neck of left femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.092C | Other fracture of head and neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.092D | Other fracture of head and neck of left femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.092E | Other fracture of head and neck of left femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.092F | Other fracture of head and neck of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.092G | Other fracture of head and neck of left femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.092H | Other fracture of head and neck of left femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.092J | Other fracture of head and neck of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.092K | Other fracture of head and neck of left femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.092M | Other fracture of head and neck of left femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.092N | Other fracture of head and neck of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.092P | Other fracture of head and neck of left femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.092Q | Other fracture of head and neck of left femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.092R | Other fracture of head and neck of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.092S | Other fracture of head and neck of left femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.099  | Other fracture of head and neck of unspecified femur  | Diagnosis     | ICD-10-CM |
| S72.099A | Other fracture of head and neck of unspecified femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.099B | Other fracture of head and neck of unspecified femur, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |
| S72.099C | Other fracture of head and neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                  | Diagnosis     | ICD-10-CM |
| S72.099D | Other fracture of head and neck of unspecified femur, subsequent encounter for closed fracture with routine healing                 | Diagnosis     | ICD-10-CM |
| S72.099E | Other fracture of head and neck of unspecified femur, subsequent encounter for open fracture type I or II with routine healing      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.099F | Other fracture of head and neck of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.099G | Other fracture of head and neck of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.099H | Other fracture of head and neck of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.099J | Other fracture of head and neck of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.099K | Other fracture of head and neck of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.099M | Other fracture of head and neck of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.099N | Other fracture of head and neck of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.099P | Other fracture of head and neck of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.099Q | Other fracture of head and neck of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.099R | Other fracture of head and neck of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.099S | Other fracture of head and neck of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.1    | Pertrochanteric fracture   | Diagnosis     | ICD-10-CM |
| S72.10   | Unspecified trochanteric fracture of femur   | Diagnosis     | ICD-10-CM |
| S72.101  | Unspecified trochanteric fracture of right femur   | Diagnosis     | ICD-10-CM |
| S72.101A | Unspecified trochanteric fracture of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.101B | Unspecified trochanteric fracture of right femur, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S72.101C | Unspecified trochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                             | Diagnosis     | ICD-10-CM |
| S72.101D | Unspecified trochanteric fracture of right femur, subsequent encounter for closed fracture with routine healing                            | Diagnosis     | ICD-10-CM |
| S72.101E | Unspecified trochanteric fracture of right femur, subsequent encounter for open fracture type I or II with routine healing                 | Diagnosis     | ICD-10-CM |
| S72.101F | Unspecified trochanteric fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing     | Diagnosis     | ICD-10-CM |
| S72.101G | Unspecified trochanteric fracture of right femur, subsequent encounter for closed fracture with delayed healing                            | Diagnosis     | ICD-10-CM |
| S72.101H | Unspecified trochanteric fracture of right femur, subsequent encounter for open fracture type I or II with delayed healing                 | Diagnosis     | ICD-10-CM |
| S72.101J | Unspecified trochanteric fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing     | Diagnosis     | ICD-10-CM |
| S72.101K | Unspecified trochanteric fracture of right femur, subsequent encounter for closed fracture with nonunion                                   | Diagnosis     | ICD-10-CM |
| S72.101M | Unspecified trochanteric fracture of right femur, subsequent encounter for open fracture type I or II with nonunion                        | Diagnosis     | ICD-10-CM |
| S72.101N | Unspecified trochanteric fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion            | Diagnosis     | ICD-10-CM |
| S72.101P | Unspecified trochanteric fracture of right femur, subsequent encounter for closed fracture with malunion                                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.101Q | Unspecified trochanteric fracture of right femur, subsequent encounter for open fracture type I or II with malunion                          | Diagnosis     | ICD-10-CM |
| S72.101R | Unspecified trochanteric fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion              | Diagnosis     | ICD-10-CM |
| S72.101S | Unspecified trochanteric fracture of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.102  | Unspecified trochanteric fracture of left femur  | Diagnosis     | ICD-10-CM |
| S72.102A | Unspecified trochanteric fracture of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.102B | Unspecified trochanteric fracture of left femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.102C | Unspecified trochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S72.102D | Unspecified trochanteric fracture of left femur, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S72.102E | Unspecified trochanteric fracture of left femur, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S72.102F | Unspecified trochanteric fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S72.102G | Unspecified trochanteric fracture of left femur, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S72.102H | Unspecified trochanteric fracture of left femur, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S72.102J | Unspecified trochanteric fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S72.102K | Unspecified trochanteric fracture of left femur, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S72.102M | Unspecified trochanteric fracture of left femur, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S72.102N | Unspecified trochanteric fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.102P | Unspecified trochanteric fracture of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.102Q | Unspecified trochanteric fracture of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.102R | Unspecified trochanteric fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.102S | Unspecified trochanteric fracture of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.109  | Unspecified trochanteric fracture of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.109A | Unspecified trochanteric fracture of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.109B | Unspecified trochanteric fracture of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.109C | Unspecified trochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.109D | Unspecified trochanteric fracture of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.109E | Unspecified trochanteric fracture of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.109F | Unspecified trochanteric fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.109G | Unspecified trochanteric fracture of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.109H | Unspecified trochanteric fracture of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S72.109J | Unspecified trochanteric fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S72.109K | Unspecified trochanteric fracture of unspecified femur, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S72.109M | Unspecified trochanteric fracture of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S72.109N | Unspecified trochanteric fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S72.109P | Unspecified trochanteric fracture of unspecified femur, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S72.109Q | Unspecified trochanteric fracture of unspecified femur, subsequent encounter for open fracture type I or II with malunion                     | Diagnosis     | ICD-10-CM |
| S72.109R | Unspecified trochanteric fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion         | Diagnosis     | ICD-10-CM |
| S72.109S | Unspecified trochanteric fracture of unspecified femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.111  | Fracture of greater trochanter of femur   | Diagnosis     | ICD-10-CM |
| S72.111  | Displaced fracture of greater trochanter of right femur   | Diagnosis     | ICD-10-CM |
| S72.111A | Displaced fracture of greater trochanter of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.111B | Displaced fracture of greater trochanter of right femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.111C | Displaced fracture of greater trochanter of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.111D | Displaced fracture of greater trochanter of right femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.111E | Displaced fracture of greater trochanter of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.111F | Displaced fracture of greater trochanter of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.111G | Displaced fracture of greater trochanter of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.111H | Displaced fracture of greater trochanter of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.111J | Displaced fracture of greater trochanter of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.111K | Displaced fracture of greater trochanter of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.111M | Displaced fracture of greater trochanter of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.111N | Displaced fracture of greater trochanter of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.111P | Displaced fracture of greater trochanter of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.111Q | Displaced fracture of greater trochanter of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.111R | Displaced fracture of greater trochanter of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.111S | Displaced fracture of greater trochanter of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.112  | Displaced fracture of greater trochanter of left femur  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.112A | Displaced fracture of greater trochanter of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.112B | Displaced fracture of greater trochanter of left femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.112C | Displaced fracture of greater trochanter of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S72.112D | Displaced fracture of greater trochanter of left femur, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S72.112E | Displaced fracture of greater trochanter of left femur, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S72.112F | Displaced fracture of greater trochanter of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S72.112G | Displaced fracture of greater trochanter of left femur, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S72.112H | Displaced fracture of greater trochanter of left femur, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S72.112J | Displaced fracture of greater trochanter of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S72.112K | Displaced fracture of greater trochanter of left femur, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S72.112M | Displaced fracture of greater trochanter of left femur, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S72.112N | Displaced fracture of greater trochanter of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.112P | Displaced fracture of greater trochanter of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.112Q | Displaced fracture of greater trochanter of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.112R | Displaced fracture of greater trochanter of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.112S | Displaced fracture of greater trochanter of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.113  | Displaced fracture of greater trochanter of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.113A | Displaced fracture of greater trochanter of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.113B | Displaced fracture of greater trochanter of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.113C | Displaced fracture of greater trochanter of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.113D | Displaced fracture of greater trochanter of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.113E | Displaced fracture of greater trochanter of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.113F | Displaced fracture of greater trochanter of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.113G | Displaced fracture of greater trochanter of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.113H | Displaced fracture of greater trochanter of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.113J | Displaced fracture of greater trochanter of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.113K | Displaced fracture of greater trochanter of unspecified femur, subsequent encounter for closed fracture with nonunion                            | Diagnosis     | ICD-10-CM |
| S72.113M | Displaced fracture of greater trochanter of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                 | Diagnosis     | ICD-10-CM |
| S72.113N | Displaced fracture of greater trochanter of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion     | Diagnosis     | ICD-10-CM |
| S72.113P | Displaced fracture of greater trochanter of unspecified femur, subsequent encounter for closed fracture with malunion                            | Diagnosis     | ICD-10-CM |
| S72.113Q | Displaced fracture of greater trochanter of unspecified femur, subsequent encounter for open fracture type I or II with malunion                 | Diagnosis     | ICD-10-CM |
| S72.113R | Displaced fracture of greater trochanter of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion     | Diagnosis     | ICD-10-CM |
| S72.113S | Displaced fracture of greater trochanter of unspecified femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.114  | Nondisplaced fracture of greater trochanter of right femur   | Diagnosis     | ICD-10-CM |
| S72.114A | Nondisplaced fracture of greater trochanter of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.114B | Nondisplaced fracture of greater trochanter of right femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.114C | Nondisplaced fracture of greater trochanter of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.114D | Nondisplaced fracture of greater trochanter of right femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.114E | Nondisplaced fracture of greater trochanter of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.114F | Nondisplaced fracture of greater trochanter of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.114G | Nondisplaced fracture of greater trochanter of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.114H | Nondisplaced fracture of greater trochanter of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.114J | Nondisplaced fracture of greater trochanter of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.114K | Nondisplaced fracture of greater trochanter of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.114M | Nondisplaced fracture of greater trochanter of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.114N | Nondisplaced fracture of greater trochanter of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.114P | Nondisplaced fracture of greater trochanter of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.114Q | Nondisplaced fracture of greater trochanter of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.114R | Nondisplaced fracture of greater trochanter of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.114S | Nondisplaced fracture of greater trochanter of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.115  | Nondisplaced fracture of greater trochanter of left femur  | Diagnosis     | ICD-10-CM |
| S72.115A | Nondisplaced fracture of greater trochanter of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.115B | Nondisplaced fracture of greater trochanter of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.115C | Nondisplaced fracture of greater trochanter of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S72.115D | Nondisplaced fracture of greater trochanter of left femur, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S72.115E | Nondisplaced fracture of greater trochanter of left femur, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S72.115F | Nondisplaced fracture of greater trochanter of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S72.115G | Nondisplaced fracture of greater trochanter of left femur, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S72.115H | Nondisplaced fracture of greater trochanter of left femur, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S72.115J | Nondisplaced fracture of greater trochanter of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S72.115K | Nondisplaced fracture of greater trochanter of left femur, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S72.115M | Nondisplaced fracture of greater trochanter of left femur, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S72.115N | Nondisplaced fracture of greater trochanter of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.115P | Nondisplaced fracture of greater trochanter of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.115Q | Nondisplaced fracture of greater trochanter of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.115R | Nondisplaced fracture of greater trochanter of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.115S | Nondisplaced fracture of greater trochanter of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.116  | Nondisplaced fracture of greater trochanter of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.116A | Nondisplaced fracture of greater trochanter of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.116B | Nondisplaced fracture of greater trochanter of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.116C | Nondisplaced fracture of greater trochanter of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.116D | Nondisplaced fracture of greater trochanter of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.116E | Nondisplaced fracture of greater trochanter of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.116F | Nondisplaced fracture of greater trochanter of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.116G | Nondisplaced fracture of greater trochanter of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.116H | Nondisplaced fracture of greater trochanter of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.116J | Nondisplaced fracture of greater trochanter of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.116K | Nondisplaced fracture of greater trochanter of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.116M | Nondisplaced fracture of greater trochanter of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.116N | Nondisplaced fracture of greater trochanter of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion | Diagnosis     | ICD-10-CM |
| S72.116P | Nondisplaced fracture of greater trochanter of unspecified femur, subsequent encounter for closed fracture with malunion                        | Diagnosis     | ICD-10-CM |
| S72.116Q | Nondisplaced fracture of greater trochanter of unspecified femur, subsequent encounter for open fracture type I or II with malunion             | Diagnosis     | ICD-10-CM |
| S72.116R | Nondisplaced fracture of greater trochanter of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion | Diagnosis     | ICD-10-CM |
| S72.116S | Nondisplaced fracture of greater trochanter of unspecified femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.12   | Fracture of lesser trochanter of femur  | Diagnosis     | ICD-10-CM |
| S72.121  | Displaced fracture of lesser trochanter of right femur  | Diagnosis     | ICD-10-CM |
| S72.121A | Displaced fracture of lesser trochanter of right femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.121B | Displaced fracture of lesser trochanter of right femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.121C | Displaced fracture of lesser trochanter of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S72.121D | Displaced fracture of lesser trochanter of right femur, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S72.121E | Displaced fracture of lesser trochanter of right femur, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S72.121F | Displaced fracture of lesser trochanter of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S72.121G | Displaced fracture of lesser trochanter of right femur, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S72.121H | Displaced fracture of lesser trochanter of right femur, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S72.121J | Displaced fracture of lesser trochanter of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S72.121K | Displaced fracture of lesser trochanter of right femur, subsequent encounter for closed fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S72.121M | Displaced fracture of lesser trochanter of right femur, subsequent encounter for open fracture type I or II with nonunion                       | Diagnosis     | ICD-10-CM |
| S72.121N | Displaced fracture of lesser trochanter of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion           | Diagnosis     | ICD-10-CM |
| S72.121P | Displaced fracture of lesser trochanter of right femur, subsequent encounter for closed fracture with malunion                                  | Diagnosis     | ICD-10-CM |
| S72.121Q | Displaced fracture of lesser trochanter of right femur, subsequent encounter for open fracture type I or II with malunion                       | Diagnosis     | ICD-10-CM |
| S72.121R | Displaced fracture of lesser trochanter of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion           | Diagnosis     | ICD-10-CM |
| S72.121S | Displaced fracture of lesser trochanter of right femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.122  | Displaced fracture of lesser trochanter of left femur   | Diagnosis     | ICD-10-CM |
| S72.122A | Displaced fracture of lesser trochanter of left femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.122B | Displaced fracture of lesser trochanter of left femur, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S72.122C | Displaced fracture of lesser trochanter of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                             | Diagnosis     | ICD-10-CM |
| S72.122D | Displaced fracture of lesser trochanter of left femur, subsequent encounter for closed fracture with routine healing                            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.122E | Displaced fracture of lesser trochanter of left femur, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S72.122F | Displaced fracture of lesser trochanter of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S72.122G | Displaced fracture of lesser trochanter of left femur, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S72.122H | Displaced fracture of lesser trochanter of left femur, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S72.122J | Displaced fracture of lesser trochanter of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S72.122K | Displaced fracture of lesser trochanter of left femur, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S72.122M | Displaced fracture of lesser trochanter of left femur, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S72.122N | Displaced fracture of lesser trochanter of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.122P | Displaced fracture of lesser trochanter of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.122Q | Displaced fracture of lesser trochanter of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.122R | Displaced fracture of lesser trochanter of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.122S | Displaced fracture of lesser trochanter of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.123  | Displaced fracture of lesser trochanter of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.123A | Displaced fracture of lesser trochanter of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.123B | Displaced fracture of lesser trochanter of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.123C | Displaced fracture of lesser trochanter of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.123D | Displaced fracture of lesser trochanter of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.123E | Displaced fracture of lesser trochanter of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.123F | Displaced fracture of lesser trochanter of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.123G | Displaced fracture of lesser trochanter of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.123H | Displaced fracture of lesser trochanter of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.123J | Displaced fracture of lesser trochanter of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.123K | Displaced fracture of lesser trochanter of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.123M | Displaced fracture of lesser trochanter of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.123N | Displaced fracture of lesser trochanter of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.123P | Displaced fracture of lesser trochanter of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.123Q | Displaced fracture of lesser trochanter of unspecified femur, subsequent encounter for open fracture type I or II with malunion                 | Diagnosis     | ICD-10-CM |
| S72.123R | Displaced fracture of lesser trochanter of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion     | Diagnosis     | ICD-10-CM |
| S72.123S | Displaced fracture of lesser trochanter of unspecified femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.124  | Nondisplaced fracture of lesser trochanter of right femur   | Diagnosis     | ICD-10-CM |
| S72.124A | Nondisplaced fracture of lesser trochanter of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.124B | Nondisplaced fracture of lesser trochanter of right femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.124C | Nondisplaced fracture of lesser trochanter of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.124D | Nondisplaced fracture of lesser trochanter of right femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.124E | Nondisplaced fracture of lesser trochanter of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.124F | Nondisplaced fracture of lesser trochanter of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.124G | Nondisplaced fracture of lesser trochanter of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.124H | Nondisplaced fracture of lesser trochanter of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.124J | Nondisplaced fracture of lesser trochanter of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.124K | Nondisplaced fracture of lesser trochanter of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.124M | Nondisplaced fracture of lesser trochanter of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.124N | Nondisplaced fracture of lesser trochanter of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.124P | Nondisplaced fracture of lesser trochanter of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.124Q | Nondisplaced fracture of lesser trochanter of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.124R | Nondisplaced fracture of lesser trochanter of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.124S | Nondisplaced fracture of lesser trochanter of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.125  | Nondisplaced fracture of lesser trochanter of left femur  | Diagnosis     | ICD-10-CM |
| S72.125A | Nondisplaced fracture of lesser trochanter of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.125B | Nondisplaced fracture of lesser trochanter of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.125C | Nondisplaced fracture of lesser trochanter of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.125D | Nondisplaced fracture of lesser trochanter of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.125E | Nondisplaced fracture of lesser trochanter of left femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S72.125F | Nondisplaced fracture of lesser trochanter of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.125G | Nondisplaced fracture of lesser trochanter of left femur, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S72.125H | Nondisplaced fracture of lesser trochanter of left femur, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S72.125J | Nondisplaced fracture of lesser trochanter of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S72.125K | Nondisplaced fracture of lesser trochanter of left femur, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S72.125M | Nondisplaced fracture of lesser trochanter of left femur, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S72.125N | Nondisplaced fracture of lesser trochanter of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.125P | Nondisplaced fracture of lesser trochanter of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.125Q | Nondisplaced fracture of lesser trochanter of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.125R | Nondisplaced fracture of lesser trochanter of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.125S | Nondisplaced fracture of lesser trochanter of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.126  | Nondisplaced fracture of lesser trochanter of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.126A | Nondisplaced fracture of lesser trochanter of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.126B | Nondisplaced fracture of lesser trochanter of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.126C | Nondisplaced fracture of lesser trochanter of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.126D | Nondisplaced fracture of lesser trochanter of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.126E | Nondisplaced fracture of lesser trochanter of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.126F | Nondisplaced fracture of lesser trochanter of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.126G | Nondisplaced fracture of lesser trochanter of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.126H | Nondisplaced fracture of lesser trochanter of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.126J | Nondisplaced fracture of lesser trochanter of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.126K | Nondisplaced fracture of lesser trochanter of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.126M | Nondisplaced fracture of lesser trochanter of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.126N | Nondisplaced fracture of lesser trochanter of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.126P | Nondisplaced fracture of lesser trochanter of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.126Q | Nondisplaced fracture of lesser trochanter of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.126R | Nondisplaced fracture of lesser trochanter of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.126S | Nondisplaced fracture of lesser trochanter of unspecified femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.13   | Apophyseal fracture of femur   | Diagnosis     | ICD-10-CM |
| S72.131  | Displaced apophyseal fracture of right femur   | Diagnosis     | ICD-10-CM |
| S72.131A | Displaced apophyseal fracture of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.131B | Displaced apophyseal fracture of right femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.131C | Displaced apophyseal fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.131D | Displaced apophyseal fracture of right femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.131E | Displaced apophyseal fracture of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.131F | Displaced apophyseal fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.131G | Displaced apophyseal fracture of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.131H | Displaced apophyseal fracture of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.131J | Displaced apophyseal fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.131K | Displaced apophyseal fracture of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.131M | Displaced apophyseal fracture of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.131N | Displaced apophyseal fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.131P | Displaced apophyseal fracture of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.131Q | Displaced apophyseal fracture of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.131R | Displaced apophyseal fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.131S | Displaced apophyseal fracture of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.132  | Displaced apophyseal fracture of left femur  | Diagnosis     | ICD-10-CM |
| S72.132A | Displaced apophyseal fracture of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.132B | Displaced apophyseal fracture of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.132C | Displaced apophyseal fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.132D | Displaced apophyseal fracture of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.132E | Displaced apophyseal fracture of left femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S72.132F | Displaced apophyseal fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S72.132G | Displaced apophyseal fracture of left femur, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S72.132H | Displaced apophyseal fracture of left femur, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S72.132J | Displaced apophyseal fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.132K | Displaced apophyseal fracture of left femur, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S72.132M | Displaced apophyseal fracture of left femur, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S72.132N | Displaced apophyseal fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.132P | Displaced apophyseal fracture of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.132Q | Displaced apophyseal fracture of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.132R | Displaced apophyseal fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.132S | Displaced apophyseal fracture of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.133  | Displaced apophyseal fracture of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.133A | Displaced apophyseal fracture of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.133B | Displaced apophyseal fracture of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.133C | Displaced apophyseal fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.133D | Displaced apophyseal fracture of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.133E | Displaced apophyseal fracture of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.133F | Displaced apophyseal fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.133G | Displaced apophyseal fracture of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.133H | Displaced apophyseal fracture of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.133J | Displaced apophyseal fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.133K | Displaced apophyseal fracture of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.133M | Displaced apophyseal fracture of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.133N | Displaced apophyseal fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.133P | Displaced apophyseal fracture of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.133Q | Displaced apophyseal fracture of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.133R | Displaced apophyseal fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.133S | Displaced apophyseal fracture of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.134  | Nondisplaced apophyseal fracture of right femur  | Diagnosis     | ICD-10-CM |
| S72.134A | Nondisplaced apophyseal fracture of right femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.134B | Nondisplaced apophyseal fracture of right femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.134C | Nondisplaced apophyseal fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.134D | Nondisplaced apophyseal fracture of right femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.134E | Nondisplaced apophyseal fracture of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.134F | Nondisplaced apophyseal fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.134G | Nondisplaced apophyseal fracture of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.134H | Nondisplaced apophyseal fracture of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.134J | Nondisplaced apophyseal fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.134K | Nondisplaced apophyseal fracture of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.134M | Nondisplaced apophyseal fracture of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.134N | Nondisplaced apophyseal fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.134P | Nondisplaced apophyseal fracture of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.134Q | Nondisplaced apophyseal fracture of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.134R | Nondisplaced apophyseal fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.134S | Nondisplaced apophyseal fracture of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.135  | Nondisplaced apophyseal fracture of left femur  | Diagnosis     | ICD-10-CM |
| S72.135A | Nondisplaced apophyseal fracture of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.135B | Nondisplaced apophyseal fracture of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.135C | Nondisplaced apophyseal fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.135D | Nondisplaced apophyseal fracture of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.135E | Nondisplaced apophyseal fracture of left femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S72.135F | Nondisplaced apophyseal fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S72.135G | Nondisplaced apophyseal fracture of left femur, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S72.135H | Nondisplaced apophyseal fracture of left femur, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S72.135J | Nondisplaced apophyseal fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S72.135K | Nondisplaced apophyseal fracture of left femur, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S72.135M | Nondisplaced apophyseal fracture of left femur, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S72.135N | Nondisplaced apophyseal fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.135P | Nondisplaced apophyseal fracture of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.135Q | Nondisplaced apophyseal fracture of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.135R | Nondisplaced apophyseal fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.135S | Nondisplaced apophyseal fracture of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.136  | Nondisplaced apophyseal fracture of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.136A | Nondisplaced apophyseal fracture of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.136B | Nondisplaced apophyseal fracture of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.136C | Nondisplaced apophyseal fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.136D | Nondisplaced apophyseal fracture of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.136E | Nondisplaced apophyseal fracture of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.136F | Nondisplaced apophyseal fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.136G | Nondisplaced apophyseal fracture of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.136H | Nondisplaced apophyseal fracture of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.136J | Nondisplaced apophyseal fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.136K | Nondisplaced apophyseal fracture of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.136M | Nondisplaced apophyseal fracture of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.136N | Nondisplaced apophyseal fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.136P | Nondisplaced apophyseal fracture of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.136Q | Nondisplaced apophyseal fracture of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.136R | Nondisplaced apophyseal fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.136S | Nondisplaced apophyseal fracture of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.14   | Intertrochanteric fracture of femur   | Diagnosis     | ICD-10-CM |
| S72.141  | Displaced intertrochanteric fracture of right femur   | Diagnosis     | ICD-10-CM |
| S72.141A | Displaced intertrochanteric fracture of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.141B | Displaced intertrochanteric fracture of right femur, initial encounter for open fracture type I or II                                       | Diagnosis     | ICD-10-CM |
| S72.141C | Displaced intertrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                           | Diagnosis     | ICD-10-CM |
| S72.141D | Displaced intertrochanteric fracture of right femur, subsequent encounter for closed fracture with routine healing                          | Diagnosis     | ICD-10-CM |
| S72.141E | Displaced intertrochanteric fracture of right femur, subsequent encounter for open fracture type I or II with routine healing               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.141F | Displaced intertrochanteric fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.141G | Displaced intertrochanteric fracture of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.141H | Displaced intertrochanteric fracture of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.141J | Displaced intertrochanteric fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.141K | Displaced intertrochanteric fracture of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.141M | Displaced intertrochanteric fracture of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.141N | Displaced intertrochanteric fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.141P | Displaced intertrochanteric fracture of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.141Q | Displaced intertrochanteric fracture of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.141R | Displaced intertrochanteric fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.141S | Displaced intertrochanteric fracture of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.142  | Displaced intertrochanteric fracture of left femur  | Diagnosis     | ICD-10-CM |
| S72.142A | Displaced intertrochanteric fracture of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.142B | Displaced intertrochanteric fracture of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.142C | Displaced intertrochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.142D | Displaced intertrochanteric fracture of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.142E | Displaced intertrochanteric fracture of left femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S72.142F | Displaced intertrochanteric fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S72.142G | Displaced intertrochanteric fracture of left femur, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S72.142H | Displaced intertrochanteric fracture of left femur, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S72.142J | Displaced intertrochanteric fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S72.142K | Displaced intertrochanteric fracture of left femur, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S72.142M | Displaced intertrochanteric fracture of left femur, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S72.142N | Displaced intertrochanteric fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S72.142P | Displaced intertrochanteric fracture of left femur, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S72.142Q | Displaced intertrochanteric fracture of left femur, subsequent encounter for open fracture type I or II with malunion                     | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.142R | Displaced intertrochanteric fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.142S | Displaced intertrochanteric fracture of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.143  | Displaced intertrochanteric fracture of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.143A | Displaced intertrochanteric fracture of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.143B | Displaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.143C | Displaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.143D | Displaced intertrochanteric fracture of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.143E | Displaced intertrochanteric fracture of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.143F | Displaced intertrochanteric fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.143G | Displaced intertrochanteric fracture of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.143H | Displaced intertrochanteric fracture of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.143J | Displaced intertrochanteric fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.143K | Displaced intertrochanteric fracture of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.143M | Displaced intertrochanteric fracture of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.143N | Displaced intertrochanteric fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.143P | Displaced intertrochanteric fracture of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.143Q | Displaced intertrochanteric fracture of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.143R | Displaced intertrochanteric fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.143S | Displaced intertrochanteric fracture of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.144  | Nondisplaced intertrochanteric fracture of right femur  | Diagnosis     | ICD-10-CM |
| S72.144A | Nondisplaced intertrochanteric fracture of right femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.144B | Nondisplaced intertrochanteric fracture of right femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.144C | Nondisplaced intertrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S72.144D | Nondisplaced intertrochanteric fracture of right femur, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S72.144E | Nondisplaced intertrochanteric fracture of right femur, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S72.144F | Nondisplaced intertrochanteric fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S72.144G | Nondisplaced intertrochanteric fracture of right femur, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.144H | Nondisplaced intertrochanteric fracture of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.144J | Nondisplaced intertrochanteric fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.144K | Nondisplaced intertrochanteric fracture of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.144M | Nondisplaced intertrochanteric fracture of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.144N | Nondisplaced intertrochanteric fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.144P | Nondisplaced intertrochanteric fracture of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.144Q | Nondisplaced intertrochanteric fracture of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.144R | Nondisplaced intertrochanteric fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.144S | Nondisplaced intertrochanteric fracture of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.145  | Nondisplaced intertrochanteric fracture of left femur  | Diagnosis     | ICD-10-CM |
| S72.145A | Nondisplaced intertrochanteric fracture of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.145B | Nondisplaced intertrochanteric fracture of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.145C | Nondisplaced intertrochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.145D | Nondisplaced intertrochanteric fracture of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.145E | Nondisplaced intertrochanteric fracture of left femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S72.145F | Nondisplaced intertrochanteric fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S72.145G | Nondisplaced intertrochanteric fracture of left femur, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S72.145H | Nondisplaced intertrochanteric fracture of left femur, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S72.145J | Nondisplaced intertrochanteric fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S72.145K | Nondisplaced intertrochanteric fracture of left femur, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S72.145M | Nondisplaced intertrochanteric fracture of left femur, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S72.145N | Nondisplaced intertrochanteric fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S72.145P | Nondisplaced intertrochanteric fracture of left femur, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S72.145Q | Nondisplaced intertrochanteric fracture of left femur, subsequent encounter for open fracture type I or II with malunion                     | Diagnosis     | ICD-10-CM |
| S72.145R | Nondisplaced intertrochanteric fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion         | Diagnosis     | ICD-10-CM |
| S72.145S | Nondisplaced intertrochanteric fracture of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.146  | Nondisplaced intertrochanteric fracture of unspecified femur   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.146A | Nondisplaced intertrochanteric fracture of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.146B | Nondisplaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.146C | Nondisplaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.146D | Nondisplaced intertrochanteric fracture of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.146E | Nondisplaced intertrochanteric fracture of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.146F | Nondisplaced intertrochanteric fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.146G | Nondisplaced intertrochanteric fracture of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.146H | Nondisplaced intertrochanteric fracture of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.146J | Nondisplaced intertrochanteric fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.146K | Nondisplaced intertrochanteric fracture of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.146M | Nondisplaced intertrochanteric fracture of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.146N | Nondisplaced intertrochanteric fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.146P | Nondisplaced intertrochanteric fracture of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.146Q | Nondisplaced intertrochanteric fracture of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.146R | Nondisplaced intertrochanteric fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.146S | Nondisplaced intertrochanteric fracture of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.2    | Subtrochanteric fracture of femur  | Diagnosis     | ICD-10-CM |
| S72.21   | Displaced subtrochanteric fracture of right femur  | Diagnosis     | ICD-10-CM |
| S72.21XA | Displaced subtrochanteric fracture of right femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.21XB | Displaced subtrochanteric fracture of right femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.21XC | Displaced subtrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                                    | Diagnosis     | ICD-10-CM |
| S72.21XD | Displaced subtrochanteric fracture of right femur, subsequent encounter for closed fracture with routine healing                                   | Diagnosis     | ICD-10-CM |
| S72.21XE | Displaced subtrochanteric fracture of right femur, subsequent encounter for open fracture type I or II with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.21XF | Displaced subtrochanteric fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing            | Diagnosis     | ICD-10-CM |
| S72.21XG | Displaced subtrochanteric fracture of right femur, subsequent encounter for closed fracture with delayed healing                                   | Diagnosis     | ICD-10-CM |
| S72.21XH | Displaced subtrochanteric fracture of right femur, subsequent encounter for open fracture type I or II with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.21XJ | Displaced subtrochanteric fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.21XK | Displaced subtrochanteric fracture of right femur, subsequent encounter for closed fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S72.21XM | Displaced subtrochanteric fracture of right femur, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S72.21XN | Displaced subtrochanteric fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion       | Diagnosis     | ICD-10-CM |
| S72.21XP | Displaced subtrochanteric fracture of right femur, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S72.21XQ | Displaced subtrochanteric fracture of right femur, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S72.21XR | Displaced subtrochanteric fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S72.21XS | Displaced subtrochanteric fracture of right femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.22   | Displaced subtrochanteric fracture of left femur   | Diagnosis     | ICD-10-CM |
| S72.22XA | Displaced subtrochanteric fracture of left femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.22XB | Displaced subtrochanteric fracture of left femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.22XC | Displaced subtrochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.22XD | Displaced subtrochanteric fracture of left femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.22XE | Displaced subtrochanteric fracture of left femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.22XF | Displaced subtrochanteric fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.22XG | Displaced subtrochanteric fracture of left femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.22XH | Displaced subtrochanteric fracture of left femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.22XJ | Displaced subtrochanteric fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.22XK | Displaced subtrochanteric fracture of left femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.22XM | Displaced subtrochanteric fracture of left femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.22XN | Displaced subtrochanteric fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.22XP | Displaced subtrochanteric fracture of left femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.22XQ | Displaced subtrochanteric fracture of left femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.22XR | Displaced subtrochanteric fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.22XS | Displaced subtrochanteric fracture of left femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.23   | Displaced subtrochanteric fracture of unspecified femur  | Diagnosis     | ICD-10-CM |
| S72.23XA | Displaced subtrochanteric fracture of unspecified femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.23XB | Displaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.23XC | Displaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.23XD | Displaced subtrochanteric fracture of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.23XE | Displaced subtrochanteric fracture of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.23XF | Displaced subtrochanteric fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.23XG | Displaced subtrochanteric fracture of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.23XH | Displaced subtrochanteric fracture of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.23XJ | Displaced subtrochanteric fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.23XK | Displaced subtrochanteric fracture of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.23XM | Displaced subtrochanteric fracture of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.23XN | Displaced subtrochanteric fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.23XP | Displaced subtrochanteric fracture of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.23XQ | Displaced subtrochanteric fracture of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.23XR | Displaced subtrochanteric fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.23XS | Displaced subtrochanteric fracture of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.24   | Nondisplaced subtrochanteric fracture of right femur  | Diagnosis     | ICD-10-CM |
| S72.24XA | Nondisplaced subtrochanteric fracture of right femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.24XB | Nondisplaced subtrochanteric fracture of right femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.24XC | Nondisplaced subtrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S72.24XD | Nondisplaced subtrochanteric fracture of right femur, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S72.24XE | Nondisplaced subtrochanteric fracture of right femur, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S72.24XF | Nondisplaced subtrochanteric fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S72.24XG | Nondisplaced subtrochanteric fracture of right femur, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S72.24XH | Nondisplaced subtrochanteric fracture of right femur, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S72.24XJ | Nondisplaced subtrochanteric fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S72.24XK | Nondisplaced subtrochanteric fracture of right femur, subsequent encounter for closed fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S72.24XM | Nondisplaced subtrochanteric fracture of right femur, subsequent encounter for open fracture type I or II with nonunion                       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.24XN | Nondisplaced subtrochanteric fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion       | Diagnosis     | ICD-10-CM |
| S72.24XP | Nondisplaced subtrochanteric fracture of right femur, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S72.24XQ | Nondisplaced subtrochanteric fracture of right femur, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S72.24XR | Nondisplaced subtrochanteric fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S72.24XS | Nondisplaced subtrochanteric fracture of right femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.25   | Nondisplaced subtrochanteric fracture of left femur   | Diagnosis     | ICD-10-CM |
| S72.25XA | Nondisplaced subtrochanteric fracture of left femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.25XB | Nondisplaced subtrochanteric fracture of left femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.25XC | Nondisplaced subtrochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.25XD | Nondisplaced subtrochanteric fracture of left femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.25XE | Nondisplaced subtrochanteric fracture of left femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.25XF | Nondisplaced subtrochanteric fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.25XG | Nondisplaced subtrochanteric fracture of left femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.25XH | Nondisplaced subtrochanteric fracture of left femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.25XJ | Nondisplaced subtrochanteric fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.25XK | Nondisplaced subtrochanteric fracture of left femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.25XM | Nondisplaced subtrochanteric fracture of left femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.25XN | Nondisplaced subtrochanteric fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.25XP | Nondisplaced subtrochanteric fracture of left femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.25XQ | Nondisplaced subtrochanteric fracture of left femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.25XR | Nondisplaced subtrochanteric fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.25XS | Nondisplaced subtrochanteric fracture of left femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.26   | Nondisplaced subtrochanteric fracture of unspecified femur  | Diagnosis     | ICD-10-CM |
| S72.26XA | Nondisplaced subtrochanteric fracture of unspecified femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.26XB | Nondisplaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |
| S72.26XC | Nondisplaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                  | Diagnosis     | ICD-10-CM |
| S72.26XD | Nondisplaced subtrochanteric fracture of unspecified femur, subsequent encounter for closed fracture with routine healing                 | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.26XE | Nondisplaced subtrochanteric fracture of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.26XF | Nondisplaced subtrochanteric fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.26XG | Nondisplaced subtrochanteric fracture of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.26XH | Nondisplaced subtrochanteric fracture of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.26XJ | Nondisplaced subtrochanteric fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.26XK | Nondisplaced subtrochanteric fracture of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.26XM | Nondisplaced subtrochanteric fracture of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.26XN | Nondisplaced subtrochanteric fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.26XP | Nondisplaced subtrochanteric fracture of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.26XQ | Nondisplaced subtrochanteric fracture of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.26XR | Nondisplaced subtrochanteric fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.26XS | Nondisplaced subtrochanteric fracture of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.3    | Fracture of shaft of femur   | Diagnosis     | ICD-10-CM |
| S72.30   | Unspecified fracture of shaft of femur   | Diagnosis     | ICD-10-CM |
| S72.301  | Unspecified fracture of shaft of right femur   | Diagnosis     | ICD-10-CM |
| S72.301A | Unspecified fracture of shaft of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.301B | Unspecified fracture of shaft of right femur, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S72.301C | Unspecified fracture of shaft of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                                       | Diagnosis     | ICD-10-CM |
| S72.301D | Unspecified fracture of shaft of right femur, subsequent encounter for closed fracture with routine healing                                      | Diagnosis     | ICD-10-CM |
| S72.301E | Unspecified fracture of shaft of right femur, subsequent encounter for open fracture type I or II with routine healing                           | Diagnosis     | ICD-10-CM |
| S72.301F | Unspecified fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing               | Diagnosis     | ICD-10-CM |
| S72.301G | Unspecified fracture of shaft of right femur, subsequent encounter for closed fracture with delayed healing                                      | Diagnosis     | ICD-10-CM |
| S72.301H | Unspecified fracture of shaft of right femur, subsequent encounter for open fracture type I or II with delayed healing                           | Diagnosis     | ICD-10-CM |
| S72.301J | Unspecified fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing               | Diagnosis     | ICD-10-CM |
| S72.301K | Unspecified fracture of shaft of right femur, subsequent encounter for closed fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S72.301M | Unspecified fracture of shaft of right femur, subsequent encounter for open fracture type I or II with nonunion                                  | Diagnosis     | ICD-10-CM |
| S72.301N | Unspecified fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion                      | Diagnosis     | ICD-10-CM |
| S72.301P | Unspecified fracture of shaft of right femur, subsequent encounter for closed fracture with malunion   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.301Q | Unspecified fracture of shaft of right femur, subsequent encounter for open fracture type I or II with malunion                          | Diagnosis     | ICD-10-CM |
| S72.301R | Unspecified fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion              | Diagnosis     | ICD-10-CM |
| S72.301S | Unspecified fracture of shaft of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.302  | Unspecified fracture of shaft of left femur  | Diagnosis     | ICD-10-CM |
| S72.302A | Unspecified fracture of shaft of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.302B | Unspecified fracture of shaft of left femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.302C | Unspecified fracture of shaft of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S72.302D | Unspecified fracture of shaft of left femur, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S72.302E | Unspecified fracture of shaft of left femur, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S72.302F | Unspecified fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S72.302G | Unspecified fracture of shaft of left femur, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S72.302H | Unspecified fracture of shaft of left femur, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S72.302J | Unspecified fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S72.302K | Unspecified fracture of shaft of left femur, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S72.302M | Unspecified fracture of shaft of left femur, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S72.302N | Unspecified fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.302P | Unspecified fracture of shaft of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.302Q | Unspecified fracture of shaft of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.302R | Unspecified fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.302S | Unspecified fracture of shaft of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.309  | Unspecified fracture of shaft of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.309A | Unspecified fracture of shaft of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.309B | Unspecified fracture of shaft of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.309C | Unspecified fracture of shaft of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.309D | Unspecified fracture of shaft of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.309E | Unspecified fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.309F | Unspecified fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.309G | Unspecified fracture of shaft of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.309H | Unspecified fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S72.309J | Unspecified fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S72.309K | Unspecified fracture of shaft of unspecified femur, subsequent encounter for closed fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S72.309M | Unspecified fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                       | Diagnosis     | ICD-10-CM |
| S72.309N | Unspecified fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion           | Diagnosis     | ICD-10-CM |
| S72.309P | Unspecified fracture of shaft of unspecified femur, subsequent encounter for closed fracture with malunion                                  | Diagnosis     | ICD-10-CM |
| S72.309Q | Unspecified fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with malunion                       | Diagnosis     | ICD-10-CM |
| S72.309R | Unspecified fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion           | Diagnosis     | ICD-10-CM |
| S72.309S | Unspecified fracture of shaft of unspecified femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.32   | Transverse fracture of shaft of femur   | Diagnosis     | ICD-10-CM |
| S72.321  | Displaced transverse fracture of shaft of right femur   | Diagnosis     | ICD-10-CM |
| S72.321A | Displaced transverse fracture of shaft of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.321B | Displaced transverse fracture of shaft of right femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.321C | Displaced transverse fracture of shaft of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.321D | Displaced transverse fracture of shaft of right femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.321E | Displaced transverse fracture of shaft of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.321F | Displaced transverse fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.321G | Displaced transverse fracture of shaft of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.321H | Displaced transverse fracture of shaft of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.321J | Displaced transverse fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.321K | Displaced transverse fracture of shaft of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.321M | Displaced transverse fracture of shaft of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.321N | Displaced transverse fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.321P | Displaced transverse fracture of shaft of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.321Q | Displaced transverse fracture of shaft of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.321R | Displaced transverse fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.321S | Displaced transverse fracture of shaft of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.322  | Displaced transverse fracture of shaft of left femur  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.322A | Displaced transverse fracture of shaft of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.322B | Displaced transverse fracture of shaft of left femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.322C | Displaced transverse fracture of shaft of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S72.322D | Displaced transverse fracture of shaft of left femur, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S72.322E | Displaced transverse fracture of shaft of left femur, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S72.322F | Displaced transverse fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S72.322G | Displaced transverse fracture of shaft of left femur, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S72.322H | Displaced transverse fracture of shaft of left femur, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S72.322J | Displaced transverse fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S72.322K | Displaced transverse fracture of shaft of left femur, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S72.322M | Displaced transverse fracture of shaft of left femur, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S72.322N | Displaced transverse fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.322P | Displaced transverse fracture of shaft of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.322Q | Displaced transverse fracture of shaft of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.322R | Displaced transverse fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.322S | Displaced transverse fracture of shaft of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.323  | Displaced transverse fracture of shaft of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.323A | Displaced transverse fracture of shaft of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.323B | Displaced transverse fracture of shaft of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.323C | Displaced transverse fracture of shaft of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.323D | Displaced transverse fracture of shaft of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.323E | Displaced transverse fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.323F | Displaced transverse fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.323G | Displaced transverse fracture of shaft of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.323H | Displaced transverse fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.323J | Displaced transverse fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.323K | Displaced transverse fracture of shaft of unspecified femur, subsequent encounter for closed fracture with nonunion                            | Diagnosis     | ICD-10-CM |
| S72.323M | Displaced transverse fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                 | Diagnosis     | ICD-10-CM |
| S72.323N | Displaced transverse fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion     | Diagnosis     | ICD-10-CM |
| S72.323P | Displaced transverse fracture of shaft of unspecified femur, subsequent encounter for closed fracture with malunion                            | Diagnosis     | ICD-10-CM |
| S72.323Q | Displaced transverse fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with malunion                 | Diagnosis     | ICD-10-CM |
| S72.323R | Displaced transverse fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion     | Diagnosis     | ICD-10-CM |
| S72.323S | Displaced transverse fracture of shaft of unspecified femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.324  | Nondisplaced transverse fracture of shaft of right femur   | Diagnosis     | ICD-10-CM |
| S72.324A | Nondisplaced transverse fracture of shaft of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.324B | Nondisplaced transverse fracture of shaft of right femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.324C | Nondisplaced transverse fracture of shaft of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.324D | Nondisplaced transverse fracture of shaft of right femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.324E | Nondisplaced transverse fracture of shaft of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.324F | Nondisplaced transverse fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.324G | Nondisplaced transverse fracture of shaft of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.324H | Nondisplaced transverse fracture of shaft of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.324J | Nondisplaced transverse fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.324K | Nondisplaced transverse fracture of shaft of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.324M | Nondisplaced transverse fracture of shaft of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.324N | Nondisplaced transverse fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.324P | Nondisplaced transverse fracture of shaft of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.324Q | Nondisplaced transverse fracture of shaft of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.324R | Nondisplaced transverse fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.324S | Nondisplaced transverse fracture of shaft of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.325  | Nondisplaced transverse fracture of shaft of left femur  | Diagnosis     | ICD-10-CM |
| S72.325A | Nondisplaced transverse fracture of shaft of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.325B | Nondisplaced transverse fracture of shaft of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.325C | Nondisplaced transverse fracture of shaft of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S72.325D | Nondisplaced transverse fracture of shaft of left femur, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S72.325E | Nondisplaced transverse fracture of shaft of left femur, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S72.325F | Nondisplaced transverse fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S72.325G | Nondisplaced transverse fracture of shaft of left femur, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S72.325H | Nondisplaced transverse fracture of shaft of left femur, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S72.325J | Nondisplaced transverse fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S72.325K | Nondisplaced transverse fracture of shaft of left femur, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S72.325M | Nondisplaced transverse fracture of shaft of left femur, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S72.325N | Nondisplaced transverse fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.325P | Nondisplaced transverse fracture of shaft of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.325Q | Nondisplaced transverse fracture of shaft of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.325R | Nondisplaced transverse fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.325S | Nondisplaced transverse fracture of shaft of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.326  | Nondisplaced transverse fracture of shaft of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.326A | Nondisplaced transverse fracture of shaft of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.326B | Nondisplaced transverse fracture of shaft of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.326C | Nondisplaced transverse fracture of shaft of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.326D | Nondisplaced transverse fracture of shaft of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.326E | Nondisplaced transverse fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.326F | Nondisplaced transverse fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.326G | Nondisplaced transverse fracture of shaft of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.326H | Nondisplaced transverse fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.326J | Nondisplaced transverse fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.326K | Nondisplaced transverse fracture of shaft of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.326M | Nondisplaced transverse fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.326N | Nondisplaced transverse fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion | Diagnosis     | ICD-10-CM |
| S72.326P | Nondisplaced transverse fracture of shaft of unspecified femur, subsequent encounter for closed fracture with malunion                        | Diagnosis     | ICD-10-CM |
| S72.326Q | Nondisplaced transverse fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with malunion             | Diagnosis     | ICD-10-CM |
| S72.326R | Nondisplaced transverse fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion | Diagnosis     | ICD-10-CM |
| S72.326S | Nondisplaced transverse fracture of shaft of unspecified femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.33   | Oblique fracture of shaft of femur  | Diagnosis     | ICD-10-CM |
| S72.331  | Displaced oblique fracture of shaft of right femur  | Diagnosis     | ICD-10-CM |
| S72.331A | Displaced oblique fracture of shaft of right femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.331B | Displaced oblique fracture of shaft of right femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.331C | Displaced oblique fracture of shaft of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                              | Diagnosis     | ICD-10-CM |
| S72.331D | Displaced oblique fracture of shaft of right femur, subsequent encounter for closed fracture with routine healing                             | Diagnosis     | ICD-10-CM |
| S72.331E | Displaced oblique fracture of shaft of right femur, subsequent encounter for open fracture type I or II with routine healing                  | Diagnosis     | ICD-10-CM |
| S72.331F | Displaced oblique fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing      | Diagnosis     | ICD-10-CM |
| S72.331G | Displaced oblique fracture of shaft of right femur, subsequent encounter for closed fracture with delayed healing                             | Diagnosis     | ICD-10-CM |
| S72.331H | Displaced oblique fracture of shaft of right femur, subsequent encounter for open fracture type I or II with delayed healing                  | Diagnosis     | ICD-10-CM |
| S72.331J | Displaced oblique fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing      | Diagnosis     | ICD-10-CM |
| S72.331K | Displaced oblique fracture of shaft of right femur, subsequent encounter for closed fracture with nonunion                                    | Diagnosis     | ICD-10-CM |
| S72.331M | Displaced oblique fracture of shaft of right femur, subsequent encounter for open fracture type I or II with nonunion                         | Diagnosis     | ICD-10-CM |
| S72.331N | Displaced oblique fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion             | Diagnosis     | ICD-10-CM |
| S72.331P | Displaced oblique fracture of shaft of right femur, subsequent encounter for closed fracture with malunion                                    | Diagnosis     | ICD-10-CM |
| S72.331Q | Displaced oblique fracture of shaft of right femur, subsequent encounter for open fracture type I or II with malunion                         | Diagnosis     | ICD-10-CM |
| S72.331R | Displaced oblique fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion             | Diagnosis     | ICD-10-CM |
| S72.331S | Displaced oblique fracture of shaft of right femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.332  | Displaced oblique fracture of shaft of left femur   | Diagnosis     | ICD-10-CM |
| S72.332A | Displaced oblique fracture of shaft of left femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.332B | Displaced oblique fracture of shaft of left femur, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S72.332C | Displaced oblique fracture of shaft of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                               | Diagnosis     | ICD-10-CM |
| S72.332D | Displaced oblique fracture of shaft of left femur, subsequent encounter for closed fracture with routine healing                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.332E | Displaced oblique fracture of shaft of left femur, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S72.332F | Displaced oblique fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S72.332G | Displaced oblique fracture of shaft of left femur, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S72.332H | Displaced oblique fracture of shaft of left femur, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S72.332J | Displaced oblique fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S72.332K | Displaced oblique fracture of shaft of left femur, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S72.332M | Displaced oblique fracture of shaft of left femur, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S72.332N | Displaced oblique fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.332P | Displaced oblique fracture of shaft of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.332Q | Displaced oblique fracture of shaft of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.332R | Displaced oblique fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.332S | Displaced oblique fracture of shaft of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.333  | Displaced oblique fracture of shaft of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.333A | Displaced oblique fracture of shaft of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.333B | Displaced oblique fracture of shaft of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.333C | Displaced oblique fracture of shaft of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.333D | Displaced oblique fracture of shaft of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.333E | Displaced oblique fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.333F | Displaced oblique fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.333G | Displaced oblique fracture of shaft of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.333H | Displaced oblique fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.333J | Displaced oblique fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.333K | Displaced oblique fracture of shaft of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.333M | Displaced oblique fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.333N | Displaced oblique fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.333P | Displaced oblique fracture of shaft of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.333Q | Displaced oblique fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with malunion                 | Diagnosis     | ICD-10-CM |
| S72.333R | Displaced oblique fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion     | Diagnosis     | ICD-10-CM |
| S72.333S | Displaced oblique fracture of shaft of unspecified femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.334  | Nondisplaced oblique fracture of shaft of right femur   | Diagnosis     | ICD-10-CM |
| S72.334A | Nondisplaced oblique fracture of shaft of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.334B | Nondisplaced oblique fracture of shaft of right femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.334C | Nondisplaced oblique fracture of shaft of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.334D | Nondisplaced oblique fracture of shaft of right femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.334E | Nondisplaced oblique fracture of shaft of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.334F | Nondisplaced oblique fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.334G | Nondisplaced oblique fracture of shaft of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.334H | Nondisplaced oblique fracture of shaft of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.334J | Nondisplaced oblique fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.334K | Nondisplaced oblique fracture of shaft of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.334M | Nondisplaced oblique fracture of shaft of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.334N | Nondisplaced oblique fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.334P | Nondisplaced oblique fracture of shaft of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.334Q | Nondisplaced oblique fracture of shaft of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.334R | Nondisplaced oblique fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.334S | Nondisplaced oblique fracture of shaft of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.335  | Nondisplaced oblique fracture of shaft of left femur  | Diagnosis     | ICD-10-CM |
| S72.335A | Nondisplaced oblique fracture of shaft of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.335B | Nondisplaced oblique fracture of shaft of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.335C | Nondisplaced oblique fracture of shaft of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.335D | Nondisplaced oblique fracture of shaft of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.335E | Nondisplaced oblique fracture of shaft of left femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S72.335F | Nondisplaced oblique fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S72.335G | Nondisplaced oblique fracture of shaft of left femur, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.335H | Nondisplaced oblique fracture of shaft of left femur, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S72.335J | Nondisplaced oblique fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S72.335K | Nondisplaced oblique fracture of shaft of left femur, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S72.335M | Nondisplaced oblique fracture of shaft of left femur, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S72.335N | Nondisplaced oblique fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.335P | Nondisplaced oblique fracture of shaft of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.335Q | Nondisplaced oblique fracture of shaft of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.335R | Nondisplaced oblique fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.335S | Nondisplaced oblique fracture of shaft of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.336  | Nondisplaced oblique fracture of shaft of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.336A | Nondisplaced oblique fracture of shaft of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.336B | Nondisplaced oblique fracture of shaft of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.336C | Nondisplaced oblique fracture of shaft of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.336D | Nondisplaced oblique fracture of shaft of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.336E | Nondisplaced oblique fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.336F | Nondisplaced oblique fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.336G | Nondisplaced oblique fracture of shaft of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.336H | Nondisplaced oblique fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.336J | Nondisplaced oblique fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.336K | Nondisplaced oblique fracture of shaft of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.336M | Nondisplaced oblique fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.336N | Nondisplaced oblique fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.336P | Nondisplaced oblique fracture of shaft of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.336Q | Nondisplaced oblique fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.336R | Nondisplaced oblique fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.336S | Nondisplaced oblique fracture of shaft of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.34   | Spiral fracture of shaft of femur   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.341  | Displaced spiral fracture of shaft of right femur   | Diagnosis     | ICD-10-CM |
| S72.341A | Displaced spiral fracture of shaft of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.341B | Displaced spiral fracture of shaft of right femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.341C | Displaced spiral fracture of shaft of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.341D | Displaced spiral fracture of shaft of right femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.341E | Displaced spiral fracture of shaft of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.341F | Displaced spiral fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.341G | Displaced spiral fracture of shaft of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.341H | Displaced spiral fracture of shaft of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.341J | Displaced spiral fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.341K | Displaced spiral fracture of shaft of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.341M | Displaced spiral fracture of shaft of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.341N | Displaced spiral fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.341P | Displaced spiral fracture of shaft of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.341Q | Displaced spiral fracture of shaft of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.341R | Displaced spiral fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.341S | Displaced spiral fracture of shaft of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.342  | Displaced spiral fracture of shaft of left femur  | Diagnosis     | ICD-10-CM |
| S72.342A | Displaced spiral fracture of shaft of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.342B | Displaced spiral fracture of shaft of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.342C | Displaced spiral fracture of shaft of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.342D | Displaced spiral fracture of shaft of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.342E | Displaced spiral fracture of shaft of left femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S72.342F | Displaced spiral fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S72.342G | Displaced spiral fracture of shaft of left femur, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S72.342H | Displaced spiral fracture of shaft of left femur, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S72.342J | Displaced spiral fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S72.342K | Displaced spiral fracture of shaft of left femur, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.342M | Displaced spiral fracture of shaft of left femur, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S72.342N | Displaced spiral fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.342P | Displaced spiral fracture of shaft of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.342Q | Displaced spiral fracture of shaft of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.342R | Displaced spiral fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.342S | Displaced spiral fracture of shaft of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.343  | Displaced spiral fracture of shaft of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.343A | Displaced spiral fracture of shaft of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.343B | Displaced spiral fracture of shaft of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.343C | Displaced spiral fracture of shaft of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.343D | Displaced spiral fracture of shaft of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.343E | Displaced spiral fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.343F | Displaced spiral fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.343G | Displaced spiral fracture of shaft of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.343H | Displaced spiral fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.343J | Displaced spiral fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.343K | Displaced spiral fracture of shaft of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.343M | Displaced spiral fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.343N | Displaced spiral fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.343P | Displaced spiral fracture of shaft of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.343Q | Displaced spiral fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.343R | Displaced spiral fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.343S | Displaced spiral fracture of shaft of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.344  | Nondisplaced spiral fracture of shaft of right femur  | Diagnosis     | ICD-10-CM |
| S72.344A | Nondisplaced spiral fracture of shaft of right femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.344B | Nondisplaced spiral fracture of shaft of right femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.344C | Nondisplaced spiral fracture of shaft of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S72.344D | Nondisplaced spiral fracture of shaft of right femur, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.344E | Nondisplaced spiral fracture of shaft of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.344F | Nondisplaced spiral fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.344G | Nondisplaced spiral fracture of shaft of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.344H | Nondisplaced spiral fracture of shaft of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.344J | Nondisplaced spiral fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.344K | Nondisplaced spiral fracture of shaft of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.344M | Nondisplaced spiral fracture of shaft of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.344N | Nondisplaced spiral fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.344P | Nondisplaced spiral fracture of shaft of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.344Q | Nondisplaced spiral fracture of shaft of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.344R | Nondisplaced spiral fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.344S | Nondisplaced spiral fracture of shaft of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.345  | Nondisplaced spiral fracture of shaft of left femur  | Diagnosis     | ICD-10-CM |
| S72.345A | Nondisplaced spiral fracture of shaft of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.345B | Nondisplaced spiral fracture of shaft of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.345C | Nondisplaced spiral fracture of shaft of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.345D | Nondisplaced spiral fracture of shaft of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.345E | Nondisplaced spiral fracture of shaft of left femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S72.345F | Nondisplaced spiral fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S72.345G | Nondisplaced spiral fracture of shaft of left femur, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S72.345H | Nondisplaced spiral fracture of shaft of left femur, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S72.345J | Nondisplaced spiral fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S72.345K | Nondisplaced spiral fracture of shaft of left femur, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S72.345M | Nondisplaced spiral fracture of shaft of left femur, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S72.345N | Nondisplaced spiral fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S72.345P | Nondisplaced spiral fracture of shaft of left femur, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.345Q | Nondisplaced spiral fracture of shaft of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.345R | Nondisplaced spiral fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.345S | Nondisplaced spiral fracture of shaft of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.346  | Nondisplaced spiral fracture of shaft of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.346A | Nondisplaced spiral fracture of shaft of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.346B | Nondisplaced spiral fracture of shaft of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.346C | Nondisplaced spiral fracture of shaft of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.346D | Nondisplaced spiral fracture of shaft of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.346E | Nondisplaced spiral fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.346F | Nondisplaced spiral fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.346G | Nondisplaced spiral fracture of shaft of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.346H | Nondisplaced spiral fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.346J | Nondisplaced spiral fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.346K | Nondisplaced spiral fracture of shaft of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.346M | Nondisplaced spiral fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.346N | Nondisplaced spiral fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.346P | Nondisplaced spiral fracture of shaft of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.346Q | Nondisplaced spiral fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.346R | Nondisplaced spiral fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.346S | Nondisplaced spiral fracture of shaft of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.35   | Comminuted fracture of shaft of femur  | Diagnosis     | ICD-10-CM |
| S72.351  | Displaced comminuted fracture of shaft of right femur  | Diagnosis     | ICD-10-CM |
| S72.351A | Displaced comminuted fracture of shaft of right femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.351B | Displaced comminuted fracture of shaft of right femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.351C | Displaced comminuted fracture of shaft of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                              | Diagnosis     | ICD-10-CM |
| S72.351D | Displaced comminuted fracture of shaft of right femur, subsequent encounter for closed fracture with routine healing                             | Diagnosis     | ICD-10-CM |
| S72.351E | Displaced comminuted fracture of shaft of right femur, subsequent encounter for open fracture type I or II with routine healing                  | Diagnosis     | ICD-10-CM |
| S72.351F | Displaced comminuted fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.351G | Displaced comminuted fracture of shaft of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.351H | Displaced comminuted fracture of shaft of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.351J | Displaced comminuted fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.351K | Displaced comminuted fracture of shaft of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.351M | Displaced comminuted fracture of shaft of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.351N | Displaced comminuted fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.351P | Displaced comminuted fracture of shaft of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.351Q | Displaced comminuted fracture of shaft of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.351R | Displaced comminuted fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.351S | Displaced comminuted fracture of shaft of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.352  | Displaced comminuted fracture of shaft of left femur  | Diagnosis     | ICD-10-CM |
| S72.352A | Displaced comminuted fracture of shaft of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.352B | Displaced comminuted fracture of shaft of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.352C | Displaced comminuted fracture of shaft of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.352D | Displaced comminuted fracture of shaft of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.352E | Displaced comminuted fracture of shaft of left femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S72.352F | Displaced comminuted fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S72.352G | Displaced comminuted fracture of shaft of left femur, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S72.352H | Displaced comminuted fracture of shaft of left femur, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S72.352J | Displaced comminuted fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S72.352K | Displaced comminuted fracture of shaft of left femur, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S72.352M | Displaced comminuted fracture of shaft of left femur, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S72.352N | Displaced comminuted fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S72.352P | Displaced comminuted fracture of shaft of left femur, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S72.352Q | Displaced comminuted fracture of shaft of left femur, subsequent encounter for open fracture type I or II with malunion                     | Diagnosis     | ICD-10-CM |
| S72.352R | Displaced comminuted fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion         | Diagnosis     | ICD-10-CM |
| S72.352S | Displaced comminuted fracture of shaft of left femur, sequela   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.353  | Displaced comminuted fracture of shaft of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.353A | Displaced comminuted fracture of shaft of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.353B | Displaced comminuted fracture of shaft of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.353C | Displaced comminuted fracture of shaft of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.353D | Displaced comminuted fracture of shaft of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.353E | Displaced comminuted fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.353F | Displaced comminuted fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.353G | Displaced comminuted fracture of shaft of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.353H | Displaced comminuted fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.353J | Displaced comminuted fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.353K | Displaced comminuted fracture of shaft of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.353M | Displaced comminuted fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.353N | Displaced comminuted fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.353P | Displaced comminuted fracture of shaft of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.353Q | Displaced comminuted fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.353R | Displaced comminuted fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.353S | Displaced comminuted fracture of shaft of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.354  | Nondisplaced comminuted fracture of shaft of right femur  | Diagnosis     | ICD-10-CM |
| S72.354A | Nondisplaced comminuted fracture of shaft of right femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.354B | Nondisplaced comminuted fracture of shaft of right femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.354C | Nondisplaced comminuted fracture of shaft of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S72.354D | Nondisplaced comminuted fracture of shaft of right femur, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S72.354E | Nondisplaced comminuted fracture of shaft of right femur, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S72.354F | Nondisplaced comminuted fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S72.354G | Nondisplaced comminuted fracture of shaft of right femur, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S72.354H | Nondisplaced comminuted fracture of shaft of right femur, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.354J | Nondisplaced comminuted fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.354K | Nondisplaced comminuted fracture of shaft of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.354M | Nondisplaced comminuted fracture of shaft of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.354N | Nondisplaced comminuted fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.354P | Nondisplaced comminuted fracture of shaft of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.354Q | Nondisplaced comminuted fracture of shaft of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.354R | Nondisplaced comminuted fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.354S | Nondisplaced comminuted fracture of shaft of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.355  | Nondisplaced comminuted fracture of shaft of left femur  | Diagnosis     | ICD-10-CM |
| S72.355A | Nondisplaced comminuted fracture of shaft of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.355B | Nondisplaced comminuted fracture of shaft of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.355C | Nondisplaced comminuted fracture of shaft of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.355D | Nondisplaced comminuted fracture of shaft of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.355E | Nondisplaced comminuted fracture of shaft of left femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S72.355F | Nondisplaced comminuted fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S72.355G | Nondisplaced comminuted fracture of shaft of left femur, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S72.355H | Nondisplaced comminuted fracture of shaft of left femur, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S72.355J | Nondisplaced comminuted fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S72.355K | Nondisplaced comminuted fracture of shaft of left femur, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S72.355M | Nondisplaced comminuted fracture of shaft of left femur, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S72.355N | Nondisplaced comminuted fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S72.355P | Nondisplaced comminuted fracture of shaft of left femur, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S72.355Q | Nondisplaced comminuted fracture of shaft of left femur, subsequent encounter for open fracture type I or II with malunion                     | Diagnosis     | ICD-10-CM |
| S72.355R | Nondisplaced comminuted fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion         | Diagnosis     | ICD-10-CM |
| S72.355S | Nondisplaced comminuted fracture of shaft of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.356  | Nondisplaced comminuted fracture of shaft of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.356A | Nondisplaced comminuted fracture of shaft of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.356B | Nondisplaced comminuted fracture of shaft of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.356C | Nondisplaced comminuted fracture of shaft of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.356D | Nondisplaced comminuted fracture of shaft of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.356E | Nondisplaced comminuted fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.356F | Nondisplaced comminuted fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.356G | Nondisplaced comminuted fracture of shaft of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.356H | Nondisplaced comminuted fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.356J | Nondisplaced comminuted fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.356K | Nondisplaced comminuted fracture of shaft of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.356M | Nondisplaced comminuted fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.356N | Nondisplaced comminuted fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.356P | Nondisplaced comminuted fracture of shaft of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.356Q | Nondisplaced comminuted fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.356R | Nondisplaced comminuted fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.356S | Nondisplaced comminuted fracture of shaft of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.36   | Segmental fracture of shaft of femur   | Diagnosis     | ICD-10-CM |
| S72.361  | Displaced segmental fracture of shaft of right femur   | Diagnosis     | ICD-10-CM |
| S72.361A | Displaced segmental fracture of shaft of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.361B | Displaced segmental fracture of shaft of right femur, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S72.361C | Displaced segmental fracture of shaft of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                                   | Diagnosis     | ICD-10-CM |
| S72.361D | Displaced segmental fracture of shaft of right femur, subsequent encounter for closed fracture with routine healing                                  | Diagnosis     | ICD-10-CM |
| S72.361E | Displaced segmental fracture of shaft of right femur, subsequent encounter for open fracture type I or II with routine healing                       | Diagnosis     | ICD-10-CM |
| S72.361F | Displaced segmental fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing           | Diagnosis     | ICD-10-CM |
| S72.361G | Displaced segmental fracture of shaft of right femur, subsequent encounter for closed fracture with delayed healing                                  | Diagnosis     | ICD-10-CM |
| S72.361H | Displaced segmental fracture of shaft of right femur, subsequent encounter for open fracture type I or II with delayed healing                       | Diagnosis     | ICD-10-CM |
| S72.361J | Displaced segmental fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing           | Diagnosis     | ICD-10-CM |
| S72.361K | Displaced segmental fracture of shaft of right femur, subsequent encounter for closed fracture with nonunion   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.361M | Displaced segmental fracture of shaft of right femur, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S72.361N | Displaced segmental fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion       | Diagnosis     | ICD-10-CM |
| S72.361P | Displaced segmental fracture of shaft of right femur, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S72.361Q | Displaced segmental fracture of shaft of right femur, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S72.361R | Displaced segmental fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S72.361S | Displaced segmental fracture of shaft of right femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.362  | Displaced segmental fracture of shaft of left femur   | Diagnosis     | ICD-10-CM |
| S72.362A | Displaced segmental fracture of shaft of left femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.362B | Displaced segmental fracture of shaft of left femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.362C | Displaced segmental fracture of shaft of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.362D | Displaced segmental fracture of shaft of left femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.362E | Displaced segmental fracture of shaft of left femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.362F | Displaced segmental fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.362G | Displaced segmental fracture of shaft of left femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.362H | Displaced segmental fracture of shaft of left femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.362J | Displaced segmental fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.362K | Displaced segmental fracture of shaft of left femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.362M | Displaced segmental fracture of shaft of left femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.362N | Displaced segmental fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.362P | Displaced segmental fracture of shaft of left femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.362Q | Displaced segmental fracture of shaft of left femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.362R | Displaced segmental fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.362S | Displaced segmental fracture of shaft of left femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.363  | Displaced segmental fracture of shaft of unspecified femur  | Diagnosis     | ICD-10-CM |
| S72.363A | Displaced segmental fracture of shaft of unspecified femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.363B | Displaced segmental fracture of shaft of unspecified femur, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |
| S72.363C | Displaced segmental fracture of shaft of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.363D | Displaced segmental fracture of shaft of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.363E | Displaced segmental fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.363F | Displaced segmental fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.363G | Displaced segmental fracture of shaft of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.363H | Displaced segmental fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.363J | Displaced segmental fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.363K | Displaced segmental fracture of shaft of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.363M | Displaced segmental fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.363N | Displaced segmental fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.363P | Displaced segmental fracture of shaft of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.363Q | Displaced segmental fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.363R | Displaced segmental fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.363S | Displaced segmental fracture of shaft of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.364  | Nondisplaced segmental fracture of shaft of right femur  | Diagnosis     | ICD-10-CM |
| S72.364A | Nondisplaced segmental fracture of shaft of right femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.364B | Nondisplaced segmental fracture of shaft of right femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.364C | Nondisplaced segmental fracture of shaft of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S72.364D | Nondisplaced segmental fracture of shaft of right femur, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S72.364E | Nondisplaced segmental fracture of shaft of right femur, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S72.364F | Nondisplaced segmental fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S72.364G | Nondisplaced segmental fracture of shaft of right femur, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S72.364H | Nondisplaced segmental fracture of shaft of right femur, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S72.364J | Nondisplaced segmental fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S72.364K | Nondisplaced segmental fracture of shaft of right femur, subsequent encounter for closed fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S72.364M | Nondisplaced segmental fracture of shaft of right femur, subsequent encounter for open fracture type I or II with nonunion                       | Diagnosis     | ICD-10-CM |
| S72.364N | Nondisplaced segmental fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.364P | Nondisplaced segmental fracture of shaft of right femur, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S72.364Q | Nondisplaced segmental fracture of shaft of right femur, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S72.364R | Nondisplaced segmental fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S72.364S | Nondisplaced segmental fracture of shaft of right femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.365  | Nondisplaced segmental fracture of shaft of left femur   | Diagnosis     | ICD-10-CM |
| S72.365A | Nondisplaced segmental fracture of shaft of left femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.365B | Nondisplaced segmental fracture of shaft of left femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.365C | Nondisplaced segmental fracture of shaft of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.365D | Nondisplaced segmental fracture of shaft of left femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.365E | Nondisplaced segmental fracture of shaft of left femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.365F | Nondisplaced segmental fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.365G | Nondisplaced segmental fracture of shaft of left femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.365H | Nondisplaced segmental fracture of shaft of left femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.365J | Nondisplaced segmental fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.365K | Nondisplaced segmental fracture of shaft of left femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.365M | Nondisplaced segmental fracture of shaft of left femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.365N | Nondisplaced segmental fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.365P | Nondisplaced segmental fracture of shaft of left femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.365Q | Nondisplaced segmental fracture of shaft of left femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.365R | Nondisplaced segmental fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.365S | Nondisplaced segmental fracture of shaft of left femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.366  | Nondisplaced segmental fracture of shaft of unspecified femur  | Diagnosis     | ICD-10-CM |
| S72.366A | Nondisplaced segmental fracture of shaft of unspecified femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.366B | Nondisplaced segmental fracture of shaft of unspecified femur, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |
| S72.366C | Nondisplaced segmental fracture of shaft of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                  | Diagnosis     | ICD-10-CM |
| S72.366D | Nondisplaced segmental fracture of shaft of unspecified femur, subsequent encounter for closed fracture with routine healing                 | Diagnosis     | ICD-10-CM |
| S72.366E | Nondisplaced segmental fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with routine healing      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.366F | Nondisplaced segmental fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.366G | Nondisplaced segmental fracture of shaft of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.366H | Nondisplaced segmental fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.366J | Nondisplaced segmental fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.366K | Nondisplaced segmental fracture of shaft of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.366M | Nondisplaced segmental fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.366N | Nondisplaced segmental fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.366P | Nondisplaced segmental fracture of shaft of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.366Q | Nondisplaced segmental fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.366R | Nondisplaced segmental fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.366S | Nondisplaced segmental fracture of shaft of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.39   | Other fracture of shaft of femur  | Diagnosis     | ICD-10-CM |
| S72.391  | Other fracture of shaft of right femur  | Diagnosis     | ICD-10-CM |
| S72.391A | Other fracture of shaft of right femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.391B | Other fracture of shaft of right femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.391C | Other fracture of shaft of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC  | Diagnosis     | ICD-10-CM |
| S72.391D | Other fracture of shaft of right femur, subsequent encounter for closed fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S72.391E | Other fracture of shaft of right femur, subsequent encounter for open fracture type I or II with routine healing                                    | Diagnosis     | ICD-10-CM |
| S72.391F | Other fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.391G | Other fracture of shaft of right femur, subsequent encounter for closed fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S72.391H | Other fracture of shaft of right femur, subsequent encounter for open fracture type I or II with delayed healing                                    | Diagnosis     | ICD-10-CM |
| S72.391J | Other fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.391K | Other fracture of shaft of right femur, subsequent encounter for closed fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S72.391M | Other fracture of shaft of right femur, subsequent encounter for open fracture type I or II with nonunion   | Diagnosis     | ICD-10-CM |
| S72.391N | Other fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.391P | Other fracture of shaft of right femur, subsequent encounter for closed fracture with malunion  | Diagnosis     | ICD-10-CM |
| S72.391Q | Other fracture of shaft of right femur, subsequent encounter for open fracture type I or II with malunion   | Diagnosis     | ICD-10-CM |
| S72.391R | Other fracture of shaft of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion                               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.391S | Other fracture of shaft of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.392  | Other fracture of shaft of left femur  | Diagnosis     | ICD-10-CM |
| S72.392A | Other fracture of shaft of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.392B | Other fracture of shaft of left femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.392C | Other fracture of shaft of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S72.392D | Other fracture of shaft of left femur, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S72.392E | Other fracture of shaft of left femur, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S72.392F | Other fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S72.392G | Other fracture of shaft of left femur, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S72.392H | Other fracture of shaft of left femur, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S72.392J | Other fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S72.392K | Other fracture of shaft of left femur, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S72.392M | Other fracture of shaft of left femur, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S72.392N | Other fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.392P | Other fracture of shaft of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.392Q | Other fracture of shaft of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.392R | Other fracture of shaft of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.392S | Other fracture of shaft of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.399  | Other fracture of shaft of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.399A | Other fracture of shaft of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.399B | Other fracture of shaft of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.399C | Other fracture of shaft of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.399D | Other fracture of shaft of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.399E | Other fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.399F | Other fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.399G | Other fracture of shaft of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.399H | Other fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.399J | Other fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.399K | Other fracture of shaft of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.399M | Other fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.399N | Other fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion            | Diagnosis     | ICD-10-CM |
| S72.399P | Other fracture of shaft of unspecified femur, subsequent encounter for closed fracture with malunion                                   | Diagnosis     | ICD-10-CM |
| S72.399Q | Other fracture of shaft of unspecified femur, subsequent encounter for open fracture type I or II with malunion                        | Diagnosis     | ICD-10-CM |
| S72.399R | Other fracture of shaft of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion            | Diagnosis     | ICD-10-CM |
| S72.399S | Other fracture of shaft of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.4    | Fracture of lower end of femur   | Diagnosis     | ICD-10-CM |
| S72.40   | Unspecified fracture of lower end of femur   | Diagnosis     | ICD-10-CM |
| S72.401  | Unspecified fracture of lower end of right femur   | Diagnosis     | ICD-10-CM |
| S72.401A | Unspecified fracture of lower end of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.401B | Unspecified fracture of lower end of right femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.401C | Unspecified fracture of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.401D | Unspecified fracture of lower end of right femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.401E | Unspecified fracture of lower end of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.401F | Unspecified fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.401G | Unspecified fracture of lower end of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.401H | Unspecified fracture of lower end of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.401J | Unspecified fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.401K | Unspecified fracture of lower end of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.401M | Unspecified fracture of lower end of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.401N | Unspecified fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.401P | Unspecified fracture of lower end of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.401Q | Unspecified fracture of lower end of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.401R | Unspecified fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.401S | Unspecified fracture of lower end of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.402  | Unspecified fracture of lower end of left femur  | Diagnosis     | ICD-10-CM |
| S72.402A | Unspecified fracture of lower end of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.402B | Unspecified fracture of lower end of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.402C | Unspecified fracture of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.402D | Unspecified fracture of lower end of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.402E | Unspecified fracture of lower end of left femur, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S72.402F | Unspecified fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S72.402G | Unspecified fracture of lower end of left femur, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S72.402H | Unspecified fracture of lower end of left femur, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S72.402J | Unspecified fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S72.402K | Unspecified fracture of lower end of left femur, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S72.402M | Unspecified fracture of lower end of left femur, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S72.402N | Unspecified fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.402P | Unspecified fracture of lower end of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.402Q | Unspecified fracture of lower end of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.402R | Unspecified fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.402S | Unspecified fracture of lower end of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.409  | Unspecified fracture of lower end of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.409A | Unspecified fracture of lower end of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.409B | Unspecified fracture of lower end of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.409C | Unspecified fracture of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.409D | Unspecified fracture of lower end of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.409E | Unspecified fracture of lower end of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.409F | Unspecified fracture of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.409G | Unspecified fracture of lower end of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.409H | Unspecified fracture of lower end of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.409J | Unspecified fracture of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.409K | Unspecified fracture of lower end of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.409M | Unspecified fracture of lower end of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.409N | Unspecified fracture of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.409P | Unspecified fracture of lower end of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.409Q | Unspecified fracture of lower end of unspecified femur, subsequent encounter for open fracture type I or II with malunion                                | Diagnosis     | ICD-10-CM |
| S72.409R | Unspecified fracture of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion                    | Diagnosis     | ICD-10-CM |
| S72.409S | Unspecified fracture of lower end of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.41   | Unspecified condyle fracture of lower end of femur   | Diagnosis     | ICD-10-CM |
| S72.411  | Displaced unspecified condyle fracture of lower end of right femur   | Diagnosis     | ICD-10-CM |
| S72.411A | Displaced unspecified condyle fracture of lower end of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.411B | Displaced unspecified condyle fracture of lower end of right femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.411C | Displaced unspecified condyle fracture of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.411D | Displaced unspecified condyle fracture of lower end of right femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.411E | Displaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.411F | Displaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.411G | Displaced unspecified condyle fracture of lower end of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.411H | Displaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.411J | Displaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.411K | Displaced unspecified condyle fracture of lower end of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.411M | Displaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.411N | Displaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.411P | Displaced unspecified condyle fracture of lower end of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.411Q | Displaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.411R | Displaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.411S | Displaced unspecified condyle fracture of lower end of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.412  | Displaced unspecified condyle fracture of lower end of left femur  | Diagnosis     | ICD-10-CM |
| S72.412A | Displaced unspecified condyle fracture of lower end of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.412B | Displaced unspecified condyle fracture of lower end of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.412C | Displaced unspecified condyle fracture of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.412D | Displaced unspecified condyle fracture of lower end of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.412E | Displaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.412F | Displaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing        | Diagnosis     | ICD-10-CM |
| S72.412G | Displaced unspecified condyle fracture of lower end of left femur, subsequent encounter for closed fracture with delayed healing                             | Diagnosis     | ICD-10-CM |
| S72.412H | Displaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type I or II with delayed healing                  | Diagnosis     | ICD-10-CM |
| S72.412J | Displaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S72.412K | Displaced unspecified condyle fracture of lower end of left femur, subsequent encounter for closed fracture with nonunion                                    | Diagnosis     | ICD-10-CM |
| S72.412M | Displaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type I or II with nonunion                         | Diagnosis     | ICD-10-CM |
| S72.412N | Displaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.412P | Displaced unspecified condyle fracture of lower end of left femur, subsequent encounter for closed fracture with malunion                                    | Diagnosis     | ICD-10-CM |
| S72.412Q | Displaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type I or II with malunion                         | Diagnosis     | ICD-10-CM |
| S72.412R | Displaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.412S | Displaced unspecified condyle fracture of lower end of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.413  | Displaced unspecified condyle fracture of lower end of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.413A | Displaced unspecified condyle fracture of lower end of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.413B | Displaced unspecified condyle fracture of lower end of unspecified femur, initial encounter for open fracture type I or II                                   | Diagnosis     | ICD-10-CM |
| S72.413C | Displaced unspecified condyle fracture of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIB, or IIC                         | Diagnosis     | ICD-10-CM |
| S72.413D | Displaced unspecified condyle fracture of lower end of unspecified femur, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S72.413E | Displaced unspecified condyle fracture of lower end of unspecified femur, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S72.413F | Displaced unspecified condyle fracture of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.413G | Displaced unspecified condyle fracture of lower end of unspecified femur, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S72.413H | Displaced unspecified condyle fracture of lower end of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S72.413J | Displaced unspecified condyle fracture of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.413K | Displaced unspecified condyle fracture of lower end of unspecified femur, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S72.413M | Displaced unspecified condyle fracture of lower end of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S72.413N | Displaced unspecified condyle fracture of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.413P | Displaced unspecified condyle fracture of lower end of unspecified femur, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S72.413Q | Displaced unspecified condyle fracture of lower end of unspecified femur, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.413R | Displaced unspecified condyle fracture of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion     | Diagnosis     | ICD-10-CM |
| S72.413S | Displaced unspecified condyle fracture of lower end of unspecified femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.414  | Nondisplaced unspecified condyle fracture of lower end of right femur   | Diagnosis     | ICD-10-CM |
| S72.414A | Nondisplaced unspecified condyle fracture of lower end of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.414B | Nondisplaced unspecified condyle fracture of lower end of right femur, initial encounter for open fracture type I or II                                   | Diagnosis     | ICD-10-CM |
| S72.414C | Nondisplaced unspecified condyle fracture of lower end of right femur, initial encounter for open fracture type IIIA, IIB, or IIC                         | Diagnosis     | ICD-10-CM |
| S72.414D | Nondisplaced unspecified condyle fracture of lower end of right femur, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S72.414E | Nondisplaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S72.414F | Nondisplaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.414G | Nondisplaced unspecified condyle fracture of lower end of right femur, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S72.414H | Nondisplaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S72.414J | Nondisplaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.414K | Nondisplaced unspecified condyle fracture of lower end of right femur, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S72.414M | Nondisplaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S72.414N | Nondisplaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.414P | Nondisplaced unspecified condyle fracture of lower end of right femur, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S72.414Q | Nondisplaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S72.414R | Nondisplaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.414S | Nondisplaced unspecified condyle fracture of lower end of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.415  | Nondisplaced unspecified condyle fracture of lower end of left femur  | Diagnosis     | ICD-10-CM |
| S72.415A | Nondisplaced unspecified condyle fracture of lower end of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.415B | Nondisplaced unspecified condyle fracture of lower end of left femur, initial encounter for open fracture type I or II                                    | Diagnosis     | ICD-10-CM |
| S72.415C | Nondisplaced unspecified condyle fracture of lower end of left femur, initial encounter for open fracture type IIIA, IIB, or IIC                          | Diagnosis     | ICD-10-CM |
| S72.415D | Nondisplaced unspecified condyle fracture of lower end of left femur, subsequent encounter for closed fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S72.415E | Nondisplaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type I or II with routine healing            | Diagnosis     | ICD-10-CM |
| S72.415F | Nondisplaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing  | Diagnosis     | ICD-10-CM |
| S72.415G | Nondisplaced unspecified condyle fracture of lower end of left femur, subsequent encounter for closed fracture with delayed healing                       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.415H | Nondisplaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S72.415J | Nondisplaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S72.415K | Nondisplaced unspecified condyle fracture of lower end of left femur, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S72.415M | Nondisplaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S72.415N | Nondisplaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.415P | Nondisplaced unspecified condyle fracture of lower end of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.415Q | Nondisplaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.415R | Nondisplaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.415S | Nondisplaced unspecified condyle fracture of lower end of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.416  | Nondisplaced unspecified condyle fracture of lower end of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.416A | Nondisplaced unspecified condyle fracture of lower end of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.416B | Nondisplaced unspecified condyle fracture of lower end of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.416C | Nondisplaced unspecified condyle fracture of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.416D | Nondisplaced unspecified condyle fracture of lower end of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.416E | Nondisplaced unspecified condyle fracture of lower end of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.416F | Nondisplaced unspecified condyle fracture of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.416G | Nondisplaced unspecified condyle fracture of lower end of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.416H | Nondisplaced unspecified condyle fracture of lower end of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.416J | Nondisplaced unspecified condyle fracture of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.416K | Nondisplaced unspecified condyle fracture of lower end of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.416M | Nondisplaced unspecified condyle fracture of lower end of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.416N | Nondisplaced unspecified condyle fracture of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.416P | Nondisplaced unspecified condyle fracture of lower end of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.416Q | Nondisplaced unspecified condyle fracture of lower end of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.416R | Nondisplaced unspecified condyle fracture of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.416S | Nondisplaced unspecified condyle fracture of lower end of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.42   | Fracture of lateral condyle of femur  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.421  | Displaced fracture of lateral condyle of right femur   | Diagnosis     | ICD-10-CM |
| S72.421A | Displaced fracture of lateral condyle of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.421B | Displaced fracture of lateral condyle of right femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.421C | Displaced fracture of lateral condyle of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.421D | Displaced fracture of lateral condyle of right femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.421E | Displaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.421F | Displaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.421G | Displaced fracture of lateral condyle of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.421H | Displaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.421J | Displaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.421K | Displaced fracture of lateral condyle of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.421M | Displaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.421N | Displaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.421P | Displaced fracture of lateral condyle of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.421Q | Displaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.421R | Displaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.421S | Displaced fracture of lateral condyle of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.422  | Displaced fracture of lateral condyle of left femur  | Diagnosis     | ICD-10-CM |
| S72.422A | Displaced fracture of lateral condyle of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.422B | Displaced fracture of lateral condyle of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.422C | Displaced fracture of lateral condyle of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.422D | Displaced fracture of lateral condyle of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.422E | Displaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S72.422F | Displaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S72.422G | Displaced fracture of lateral condyle of left femur, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S72.422H | Displaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S72.422J | Displaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.422K | Displaced fracture of lateral condyle of left femur, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S72.422M | Displaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S72.422N | Displaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.422P | Displaced fracture of lateral condyle of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.422Q | Displaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.422R | Displaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.422S | Displaced fracture of lateral condyle of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.423  | Displaced fracture of lateral condyle of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.423A | Displaced fracture of lateral condyle of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.423B | Displaced fracture of lateral condyle of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.423C | Displaced fracture of lateral condyle of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.423D | Displaced fracture of lateral condyle of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.423E | Displaced fracture of lateral condyle of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.423F | Displaced fracture of lateral condyle of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.423G | Displaced fracture of lateral condyle of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.423H | Displaced fracture of lateral condyle of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.423J | Displaced fracture of lateral condyle of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.423K | Displaced fracture of lateral condyle of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.423M | Displaced fracture of lateral condyle of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.423N | Displaced fracture of lateral condyle of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.423P | Displaced fracture of lateral condyle of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.423Q | Displaced fracture of lateral condyle of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.423R | Displaced fracture of lateral condyle of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.423S | Displaced fracture of lateral condyle of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.424  | Nondisplaced fracture of lateral condyle of right femur  | Diagnosis     | ICD-10-CM |
| S72.424A | Nondisplaced fracture of lateral condyle of right femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.424B | Nondisplaced fracture of lateral condyle of right femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.424C | Nondisplaced fracture of lateral condyle of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.424D | Nondisplaced fracture of lateral condyle of right femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.424E | Nondisplaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.424F | Nondisplaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.424G | Nondisplaced fracture of lateral condyle of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.424H | Nondisplaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.424J | Nondisplaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.424K | Nondisplaced fracture of lateral condyle of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.424M | Nondisplaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.424N | Nondisplaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.424P | Nondisplaced fracture of lateral condyle of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.424Q | Nondisplaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.424R | Nondisplaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.424S | Nondisplaced fracture of lateral condyle of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.425  | Nondisplaced fracture of lateral condyle of left femur  | Diagnosis     | ICD-10-CM |
| S72.425A | Nondisplaced fracture of lateral condyle of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.425B | Nondisplaced fracture of lateral condyle of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.425C | Nondisplaced fracture of lateral condyle of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.425D | Nondisplaced fracture of lateral condyle of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.425E | Nondisplaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S72.425F | Nondisplaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S72.425G | Nondisplaced fracture of lateral condyle of left femur, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S72.425H | Nondisplaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S72.425J | Nondisplaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S72.425K | Nondisplaced fracture of lateral condyle of left femur, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S72.425M | Nondisplaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.425N | Nondisplaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.425P | Nondisplaced fracture of lateral condyle of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.425Q | Nondisplaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.425R | Nondisplaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.425S | Nondisplaced fracture of lateral condyle of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.426  | Nondisplaced fracture of lateral condyle of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.426A | Nondisplaced fracture of lateral condyle of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.426B | Nondisplaced fracture of lateral condyle of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.426C | Nondisplaced fracture of lateral condyle of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.426D | Nondisplaced fracture of lateral condyle of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.426E | Nondisplaced fracture of lateral condyle of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.426F | Nondisplaced fracture of lateral condyle of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.426G | Nondisplaced fracture of lateral condyle of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.426H | Nondisplaced fracture of lateral condyle of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.426J | Nondisplaced fracture of lateral condyle of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.426K | Nondisplaced fracture of lateral condyle of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.426M | Nondisplaced fracture of lateral condyle of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.426N | Nondisplaced fracture of lateral condyle of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.426P | Nondisplaced fracture of lateral condyle of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.426Q | Nondisplaced fracture of lateral condyle of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.426R | Nondisplaced fracture of lateral condyle of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.426S | Nondisplaced fracture of lateral condyle of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.43   | Fracture of medial condyle of femur   | Diagnosis     | ICD-10-CM |
| S72.431  | Displaced fracture of medial condyle of right femur   | Diagnosis     | ICD-10-CM |
| S72.431A | Displaced fracture of medial condyle of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.431B | Displaced fracture of medial condyle of right femur, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S72.431C | Displaced fracture of medial condyle of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                                   | Diagnosis     | ICD-10-CM |
| S72.431D | Displaced fracture of medial condyle of right femur, subsequent encounter for closed fracture with routine healing                                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.431E | Displaced fracture of medial condyle of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.431F | Displaced fracture of medial condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.431G | Displaced fracture of medial condyle of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.431H | Displaced fracture of medial condyle of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.431J | Displaced fracture of medial condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.431K | Displaced fracture of medial condyle of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.431M | Displaced fracture of medial condyle of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.431N | Displaced fracture of medial condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.431P | Displaced fracture of medial condyle of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.431Q | Displaced fracture of medial condyle of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.431R | Displaced fracture of medial condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.431S | Displaced fracture of medial condyle of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.432  | Displaced fracture of medial condyle of left femur  | Diagnosis     | ICD-10-CM |
| S72.432A | Displaced fracture of medial condyle of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.432B | Displaced fracture of medial condyle of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.432C | Displaced fracture of medial condyle of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.432D | Displaced fracture of medial condyle of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.432E | Displaced fracture of medial condyle of left femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S72.432F | Displaced fracture of medial condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S72.432G | Displaced fracture of medial condyle of left femur, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S72.432H | Displaced fracture of medial condyle of left femur, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S72.432J | Displaced fracture of medial condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S72.432K | Displaced fracture of medial condyle of left femur, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S72.432M | Displaced fracture of medial condyle of left femur, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S72.432N | Displaced fracture of medial condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S72.432P | Displaced fracture of medial condyle of left femur, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.432Q | Displaced fracture of medial condyle of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.432R | Displaced fracture of medial condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.432S | Displaced fracture of medial condyle of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.433  | Displaced fracture of medial condyle of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.433A | Displaced fracture of medial condyle of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.433B | Displaced fracture of medial condyle of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.433C | Displaced fracture of medial condyle of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.433D | Displaced fracture of medial condyle of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.433E | Displaced fracture of medial condyle of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.433F | Displaced fracture of medial condyle of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.433G | Displaced fracture of medial condyle of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.433H | Displaced fracture of medial condyle of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.433J | Displaced fracture of medial condyle of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.433K | Displaced fracture of medial condyle of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.433M | Displaced fracture of medial condyle of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.433N | Displaced fracture of medial condyle of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.433P | Displaced fracture of medial condyle of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.433Q | Displaced fracture of medial condyle of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.433R | Displaced fracture of medial condyle of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.433S | Displaced fracture of medial condyle of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.434  | Nondisplaced fracture of medial condyle of right femur  | Diagnosis     | ICD-10-CM |
| S72.434A | Nondisplaced fracture of medial condyle of right femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.434B | Nondisplaced fracture of medial condyle of right femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.434C | Nondisplaced fracture of medial condyle of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S72.434D | Nondisplaced fracture of medial condyle of right femur, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S72.434E | Nondisplaced fracture of medial condyle of right femur, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S72.434F | Nondisplaced fracture of medial condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.434G | Nondisplaced fracture of medial condyle of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.434H | Nondisplaced fracture of medial condyle of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.434J | Nondisplaced fracture of medial condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.434K | Nondisplaced fracture of medial condyle of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.434M | Nondisplaced fracture of medial condyle of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.434N | Nondisplaced fracture of medial condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.434P | Nondisplaced fracture of medial condyle of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.434Q | Nondisplaced fracture of medial condyle of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.434R | Nondisplaced fracture of medial condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.434S | Nondisplaced fracture of medial condyle of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.435  | Nondisplaced fracture of medial condyle of left femur  | Diagnosis     | ICD-10-CM |
| S72.435A | Nondisplaced fracture of medial condyle of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.435B | Nondisplaced fracture of medial condyle of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.435C | Nondisplaced fracture of medial condyle of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.435D | Nondisplaced fracture of medial condyle of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.435E | Nondisplaced fracture of medial condyle of left femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S72.435F | Nondisplaced fracture of medial condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S72.435G | Nondisplaced fracture of medial condyle of left femur, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S72.435H | Nondisplaced fracture of medial condyle of left femur, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S72.435J | Nondisplaced fracture of medial condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S72.435K | Nondisplaced fracture of medial condyle of left femur, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S72.435M | Nondisplaced fracture of medial condyle of left femur, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S72.435N | Nondisplaced fracture of medial condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S72.435P | Nondisplaced fracture of medial condyle of left femur, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S72.435Q | Nondisplaced fracture of medial condyle of left femur, subsequent encounter for open fracture type I or II with malunion                     | Diagnosis     | ICD-10-CM |
| S72.435R | Nondisplaced fracture of medial condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion         | Diagnosis     | ICD-10-CM |
| S72.435S | Nondisplaced fracture of medial condyle of left femur, sequela   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.436  | Nondisplaced fracture of medial condyle of unspecified femur  | Diagnosis     | ICD-10-CM |
| S72.436A | Nondisplaced fracture of medial condyle of unspecified femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.436B | Nondisplaced fracture of medial condyle of unspecified femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.436C | Nondisplaced fracture of medial condyle of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                              | Diagnosis     | ICD-10-CM |
| S72.436D | Nondisplaced fracture of medial condyle of unspecified femur, subsequent encounter for closed fracture with routine healing                             | Diagnosis     | ICD-10-CM |
| S72.436E | Nondisplaced fracture of medial condyle of unspecified femur, subsequent encounter for open fracture type I or II with routine healing                  | Diagnosis     | ICD-10-CM |
| S72.436F | Nondisplaced fracture of medial condyle of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing      | Diagnosis     | ICD-10-CM |
| S72.436G | Nondisplaced fracture of medial condyle of unspecified femur, subsequent encounter for closed fracture with delayed healing                             | Diagnosis     | ICD-10-CM |
| S72.436H | Nondisplaced fracture of medial condyle of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing                  | Diagnosis     | ICD-10-CM |
| S72.436J | Nondisplaced fracture of medial condyle of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing      | Diagnosis     | ICD-10-CM |
| S72.436K | Nondisplaced fracture of medial condyle of unspecified femur, subsequent encounter for closed fracture with nonunion                                    | Diagnosis     | ICD-10-CM |
| S72.436M | Nondisplaced fracture of medial condyle of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                         | Diagnosis     | ICD-10-CM |
| S72.436N | Nondisplaced fracture of medial condyle of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion             | Diagnosis     | ICD-10-CM |
| S72.436P | Nondisplaced fracture of medial condyle of unspecified femur, subsequent encounter for closed fracture with malunion                                    | Diagnosis     | ICD-10-CM |
| S72.436Q | Nondisplaced fracture of medial condyle of unspecified femur, subsequent encounter for open fracture type I or II with malunion                         | Diagnosis     | ICD-10-CM |
| S72.436R | Nondisplaced fracture of medial condyle of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion             | Diagnosis     | ICD-10-CM |
| S72.436S | Nondisplaced fracture of medial condyle of unspecified femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.44   | Fracture of lower epiphysis (separation) of femur   | Diagnosis     | ICD-10-CM |
| S72.441  | Displaced fracture of lower epiphysis (separation) of right femur   | Diagnosis     | ICD-10-CM |
| S72.441A | Displaced fracture of lower epiphysis (separation) of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.441B | Displaced fracture of lower epiphysis (separation) of right femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.441C | Displaced fracture of lower epiphysis (separation) of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.441D | Displaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.441E | Displaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.441F | Displaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.441G | Displaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.441H | Displaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.441J | Displaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.441K | Displaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.441M | Displaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.441N | Displaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.441P | Displaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.441Q | Displaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.441R | Displaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.441S | Displaced fracture of lower epiphysis (separation) of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.442  | Displaced fracture of lower epiphysis (separation) of left femur  | Diagnosis     | ICD-10-CM |
| S72.442A | Displaced fracture of lower epiphysis (separation) of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.442B | Displaced fracture of lower epiphysis (separation) of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.442C | Displaced fracture of lower epiphysis (separation) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.442D | Displaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.442E | Displaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S72.442F | Displaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S72.442G | Displaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S72.442H | Displaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S72.442J | Displaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S72.442K | Displaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S72.442M | Displaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S72.442N | Displaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S72.442P | Displaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S72.442Q | Displaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type I or II with malunion                     | Diagnosis     | ICD-10-CM |
| S72.442R | Displaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion         | Diagnosis     | ICD-10-CM |
| S72.442S | Displaced fracture of lower epiphysis (separation) of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.443  | Displaced fracture of lower epiphysis (separation) of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.443A | Displaced fracture of lower epiphysis (separation) of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.443B | Displaced fracture of lower epiphysis (separation) of unspecified femur, initial encounter for open fracture type I or II                                   | Diagnosis     | ICD-10-CM |
| S72.443C | Displaced fracture of lower epiphysis (separation) of unspecified femur, initial encounter for open fracture type IIIA, IIB, or IIC                         | Diagnosis     | ICD-10-CM |
| S72.443D | Displaced fracture of lower epiphysis (separation) of unspecified femur, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S72.443E | Displaced fracture of lower epiphysis (separation) of unspecified femur, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S72.443F | Displaced fracture of lower epiphysis (separation) of unspecified femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.443G | Displaced fracture of lower epiphysis (separation) of unspecified femur, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S72.443H | Displaced fracture of lower epiphysis (separation) of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S72.443J | Displaced fracture of lower epiphysis (separation) of unspecified femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.443K | Displaced fracture of lower epiphysis (separation) of unspecified femur, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S72.443M | Displaced fracture of lower epiphysis (separation) of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S72.443N | Displaced fracture of lower epiphysis (separation) of unspecified femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.443P | Displaced fracture of lower epiphysis (separation) of unspecified femur, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S72.443Q | Displaced fracture of lower epiphysis (separation) of unspecified femur, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S72.443R | Displaced fracture of lower epiphysis (separation) of unspecified femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.443S | Displaced fracture of lower epiphysis (separation) of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.444  | Nondisplaced fracture of lower epiphysis (separation) of right femur  | Diagnosis     | ICD-10-CM |
| S72.444A | Nondisplaced fracture of lower epiphysis (separation) of right femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.444B | Nondisplaced fracture of lower epiphysis (separation) of right femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.444C | Nondisplaced fracture of lower epiphysis (separation) of right femur, initial encounter for open fracture type IIIA, IIB, or IIC                            | Diagnosis     | ICD-10-CM |
| S72.444D | Nondisplaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.444E | Nondisplaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S72.444F | Nondisplaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing    | Diagnosis     | ICD-10-CM |
| S72.444G | Nondisplaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S72.444H | Nondisplaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S72.444J | Nondisplaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S72.444K | Nondisplaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.444M | Nondisplaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S72.444N | Nondisplaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion       | Diagnosis     | ICD-10-CM |
| S72.444P | Nondisplaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S72.444Q | Nondisplaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S72.444R | Nondisplaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S72.444S | Nondisplaced fracture of lower epiphysis (separation) of right femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.445  | Nondisplaced fracture of lower epiphysis (separation) of left femur   | Diagnosis     | ICD-10-CM |
| S72.445A | Nondisplaced fracture of lower epiphysis (separation) of left femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.445B | Nondisplaced fracture of lower epiphysis (separation) of left femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.445C | Nondisplaced fracture of lower epiphysis (separation) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.445D | Nondisplaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.445E | Nondisplaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.445F | Nondisplaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.445G | Nondisplaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.445H | Nondisplaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.445J | Nondisplaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.445K | Nondisplaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.445M | Nondisplaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.445N | Nondisplaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.445P | Nondisplaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.445Q | Nondisplaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.445R | Nondisplaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.445S | Nondisplaced fracture of lower epiphysis (separation) of left femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.446  | Nondisplaced fracture of lower epiphysis (separation) of unspecified femur  | Diagnosis     | ICD-10-CM |
| S72.446A | Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.446B | Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |
| S72.446C | Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.446D | Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, subsequent encounter for closed fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S72.446E | Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, subsequent encounter for open fracture type I or II with routine healing                             | Diagnosis     | ICD-10-CM |
| S72.446F | Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing                   | Diagnosis     | ICD-10-CM |
| S72.446G | Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, subsequent encounter for closed fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S72.446H | Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing                             | Diagnosis     | ICD-10-CM |
| S72.446J | Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing                   | Diagnosis     | ICD-10-CM |
| S72.446K | Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, subsequent encounter for closed fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S72.446M | Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                                    | Diagnosis     | ICD-10-CM |
| S72.446N | Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion                          | Diagnosis     | ICD-10-CM |
| S72.446P | Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, subsequent encounter for closed fracture with malunion   | Diagnosis     | ICD-10-CM |
| S72.446Q | Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, subsequent encounter for open fracture type I or II with malunion                                    | Diagnosis     | ICD-10-CM |
| S72.446R | Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion                          | Diagnosis     | ICD-10-CM |
| S72.446S | Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.45   | Supracondylar fracture without intracondylar extension of lower end of femur   | Diagnosis     | ICD-10-CM |
| S72.451  | Displaced supracondylar fracture without intracondylar extension of lower end of right femur   | Diagnosis     | ICD-10-CM |
| S72.451A | Displaced supracondylar fracture without intracondylar extension of lower end of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.451B | Displaced supracondylar fracture without intracondylar extension of lower end of right femur, initial encounter for open fracture type I or II                                   | Diagnosis     | ICD-10-CM |
| S72.451C | Displaced supracondylar fracture without intracondylar extension of lower end of right femur, initial encounter for open fracture type IIIA, IIB, or IIC                         | Diagnosis     | ICD-10-CM |
| S72.451D | Displaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S72.451E | Displaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S72.451F | Displaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.451G | Displaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S72.451H | Displaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S72.451J | Displaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.451K | Displaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S72.451M | Displaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.451N | Displaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion       | Diagnosis     | ICD-10-CM |
| S72.451P | Displaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S72.451Q | Displaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S72.451R | Displaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S72.451S | Displaced supracondylar fracture without intracondylar extension of lower end of right femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.452  | Displaced supracondylar fracture without intracondylar extension of lower end of left femur   | Diagnosis     | ICD-10-CM |
| S72.452A | Displaced supracondylar fracture without intracondylar extension of lower end of left femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.452B | Displaced supracondylar fracture without intracondylar extension of lower end of left femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.452C | Displaced supracondylar fracture without intracondylar extension of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.452D | Displaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.452E | Displaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.452F | Displaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.452G | Displaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.452H | Displaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.452J | Displaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.452K | Displaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.452M | Displaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.452N | Displaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.452P | Displaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.452Q | Displaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.452R | Displaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.452S | Displaced supracondylar fracture without intracondylar extension of lower end of left femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.453  | Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur  | Diagnosis     | ICD-10-CM |
| S72.453A | Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.453B | Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.453C | Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.453D | Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.453E | Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.453F | Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.453G | Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.453H | Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.453J | Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.453K | Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.453M | Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.453N | Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.453P | Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.453Q | Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.453R | Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.453S | Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.454  | Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur  | Diagnosis     | ICD-10-CM |
| S72.454A | Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.454B | Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.454C | Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S72.454D | Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S72.454E | Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S72.454F | Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S72.454G | Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S72.454H | Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.454J | Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.454K | Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.454M | Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.454N | Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.454P | Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.454Q | Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.454R | Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.454S | Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.455  | Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur  | Diagnosis     | ICD-10-CM |
| S72.455A | Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.455B | Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.455C | Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.455D | Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.455E | Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S72.455F | Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S72.455G | Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S72.455H | Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S72.455J | Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S72.455K | Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S72.455M | Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S72.455N | Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S72.455P | Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S72.455Q | Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with malunion                     | Diagnosis     | ICD-10-CM |
| S72.455R | Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion         | Diagnosis     | ICD-10-CM |
| S72.455S | Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, sequela   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.456  | Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.456A | Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.456B | Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.456C | Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.456D | Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.456E | Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.456F | Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.456G | Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.456H | Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.456J | Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.456K | Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.456M | Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.456N | Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.456P | Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.456Q | Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.456R | Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.456S | Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.46   | Supracondylar fracture with intracondylar extension of lower end of femur   | Diagnosis     | ICD-10-CM |
| S72.461  | Displaced supracondylar fracture with intracondylar extension of lower end of right femur   | Diagnosis     | ICD-10-CM |
| S72.461A | Displaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.461B | Displaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S72.461C | Displaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                                     | Diagnosis     | ICD-10-CM |
| S72.461D | Displaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with routine healing                                    | Diagnosis     | ICD-10-CM |
| S72.461E | Displaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with routine healing                         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.461F | Displaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.461G | Displaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.461H | Displaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.461J | Displaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.461K | Displaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.461M | Displaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.461N | Displaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.461P | Displaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.461Q | Displaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.461R | Displaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.461S | Displaced supracondylar fracture with intracondylar extension of lower end of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.462  | Displaced supracondylar fracture with intracondylar extension of lower end of left femur  | Diagnosis     | ICD-10-CM |
| S72.462A | Displaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.462B | Displaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.462C | Displaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.462D | Displaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.462E | Displaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S72.462F | Displaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S72.462G | Displaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S72.462H | Displaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S72.462J | Displaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S72.462K | Displaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S72.462M | Displaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S72.462N | Displaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S72.462P | Displaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.462Q | Displaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.462R | Displaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.462S | Displaced supracondylar fracture with intracondylar extension of lower end of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.463  | Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.463A | Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.463B | Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.463C | Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.463D | Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.463E | Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.463F | Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.463G | Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.463H | Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.463J | Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.463K | Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.463M | Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.463N | Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.463P | Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.463Q | Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.463R | Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.463S | Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.464  | Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur  | Diagnosis     | ICD-10-CM |
| S72.464A | Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.464B | Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.464C | Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S72.464D | Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.464E | Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.464F | Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.464G | Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.464H | Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.464J | Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.464K | Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.464M | Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.464N | Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.464P | Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.464Q | Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.464R | Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.464S | Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.465  | Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur  | Diagnosis     | ICD-10-CM |
| S72.465A | Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.465B | Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S72.465C | Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S72.465D | Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.465E | Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S72.465F | Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S72.465G | Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S72.465H | Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S72.465J | Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S72.465K | Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S72.465M | Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S72.465N | Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.465P | Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.465Q | Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S72.465R | Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.465S | Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.466  | Nondisplaced supracondylar fracture with intracondylar extension of lower end of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.466A | Nondisplaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.466B | Nondisplaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.466C | Nondisplaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.466D | Nondisplaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.466E | Nondisplaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.466F | Nondisplaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.466G | Nondisplaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.466H | Nondisplaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.466J | Nondisplaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.466K | Nondisplaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.466M | Nondisplaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.466N | Nondisplaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.466P | Nondisplaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.466Q | Nondisplaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.466R | Nondisplaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.466S | Nondisplaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.47   | Torus fracture of lower end of femur   | Diagnosis     | ICD-10-CM |
| S72.471  | Torus fracture of lower end of right femur   | Diagnosis     | ICD-10-CM |
| S72.471A | Torus fracture of lower end of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.471D | Torus fracture of lower end of right femur, subsequent encounter for fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S72.471G | Torus fracture of lower end of right femur, subsequent encounter for fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S72.471K | Torus fracture of lower end of right femur, subsequent encounter for fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S72.471P | Torus fracture of lower end of right femur, subsequent encounter for fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S72.471S | Torus fracture of lower end of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.472  | Torus fracture of lower end of left femur  | Diagnosis     | ICD-10-CM |
| S72.472A | Torus fracture of lower end of left femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.472D | Torus fracture of lower end of left femur, subsequent encounter for fracture with routine healing                                | Diagnosis     | ICD-10-CM |
| S72.472G | Torus fracture of lower end of left femur, subsequent encounter for fracture with delayed healing                                | Diagnosis     | ICD-10-CM |
| S72.472K | Torus fracture of lower end of left femur, subsequent encounter for fracture with nonunion                                       | Diagnosis     | ICD-10-CM |
| S72.472P | Torus fracture of lower end of left femur, subsequent encounter for fracture with malunion                                       | Diagnosis     | ICD-10-CM |
| S72.472S | Torus fracture of lower end of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.479  | Torus fracture of lower end of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.479A | Torus fracture of lower end of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.479D | Torus fracture of lower end of unspecified femur, subsequent encounter for fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S72.479G | Torus fracture of lower end of unspecified femur, subsequent encounter for fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S72.479K | Torus fracture of lower end of unspecified femur, subsequent encounter for fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S72.479P | Torus fracture of lower end of unspecified femur, subsequent encounter for fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S72.479S | Torus fracture of lower end of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.49   | Other fracture of lower end of femur   | Diagnosis     | ICD-10-CM |
| S72.491  | Other fracture of lower end of right femur   | Diagnosis     | ICD-10-CM |
| S72.491A | Other fracture of lower end of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.491B | Other fracture of lower end of right femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.491C | Other fracture of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.491D | Other fracture of lower end of right femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.491E | Other fracture of lower end of right femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.491F | Other fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.491G | Other fracture of lower end of right femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.491H | Other fracture of lower end of right femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.491J | Other fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.491K | Other fracture of lower end of right femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.491M | Other fracture of lower end of right femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.491N | Other fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion       | Diagnosis     | ICD-10-CM |
| S72.491P | Other fracture of lower end of right femur, subsequent encounter for closed fracture with malunion                            | Diagnosis     | ICD-10-CM |
| S72.491Q | Other fracture of lower end of right femur, subsequent encounter for open fracture type I or II with malunion                 | Diagnosis     | ICD-10-CM |
| S72.491R | Other fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion       | Diagnosis     | ICD-10-CM |
| S72.491S | Other fracture of lower end of right femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.492  | Other fracture of lower end of left femur   | Diagnosis     | ICD-10-CM |
| S72.492A | Other fracture of lower end of left femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.492B | Other fracture of lower end of left femur, initial encounter for open fracture type I or II                                   | Diagnosis     | ICD-10-CM |
| S72.492C | Other fracture of lower end of left femur, initial encounter for open fracture type IIIA, IIB, or IIC                         | Diagnosis     | ICD-10-CM |
| S72.492D | Other fracture of lower end of left femur, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S72.492E | Other fracture of lower end of left femur, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S72.492F | Other fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.492G | Other fracture of lower end of left femur, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S72.492H | Other fracture of lower end of left femur, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S72.492J | Other fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.492K | Other fracture of lower end of left femur, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S72.492M | Other fracture of lower end of left femur, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S72.492N | Other fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.492P | Other fracture of lower end of left femur, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S72.492Q | Other fracture of lower end of left femur, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S72.492R | Other fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.492S | Other fracture of lower end of left femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.499  | Other fracture of lower end of unspecified femur  | Diagnosis     | ICD-10-CM |
| S72.499A | Other fracture of lower end of unspecified femur, initial encounter for closed fracture                                       | Diagnosis     | ICD-10-CM |
| S72.499B | Other fracture of lower end of unspecified femur, initial encounter for open fracture type I or II                            | Diagnosis     | ICD-10-CM |
| S72.499C | Other fracture of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIB, or IIC                  | Diagnosis     | ICD-10-CM |
| S72.499D | Other fracture of lower end of unspecified femur, subsequent encounter for closed fracture with routine healing               | Diagnosis     | ICD-10-CM |
| S72.499E | Other fracture of lower end of unspecified femur, subsequent encounter for open fracture type I or II with routine healing    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.499F | Other fracture of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.499G | Other fracture of lower end of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.499H | Other fracture of lower end of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.499J | Other fracture of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.499K | Other fracture of lower end of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.499M | Other fracture of lower end of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.499N | Other fracture of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.499P | Other fracture of lower end of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.499Q | Other fracture of lower end of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.499R | Other fracture of lower end of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.499S | Other fracture of lower end of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.8    | Other fracture of femur  | Diagnosis     | ICD-10-CM |
| S72.8X   | Other fracture of femur  | Diagnosis     | ICD-10-CM |
| S72.8X1  | Other fracture of right femur  | Diagnosis     | ICD-10-CM |
| S72.8X1A | Other fracture of right femur, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S72.8X1B | Other fracture of right femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.8X1C | Other fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC  | Diagnosis     | ICD-10-CM |
| S72.8X1D | Other fracture of right femur, subsequent encounter for closed fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S72.8X1E | Other fracture of right femur, subsequent encounter for open fracture type I or II with routine healing                                | Diagnosis     | ICD-10-CM |
| S72.8X1F | Other fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing                    | Diagnosis     | ICD-10-CM |
| S72.8X1G | Other fracture of right femur, subsequent encounter for closed fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S72.8X1H | Other fracture of right femur, subsequent encounter for open fracture type I or II with delayed healing                                | Diagnosis     | ICD-10-CM |
| S72.8X1J | Other fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing                    | Diagnosis     | ICD-10-CM |
| S72.8X1K | Other fracture of right femur, subsequent encounter for closed fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S72.8X1M | Other fracture of right femur, subsequent encounter for open fracture type I or II with nonunion                                       | Diagnosis     | ICD-10-CM |
| S72.8X1N | Other fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion                           | Diagnosis     | ICD-10-CM |
| S72.8X1P | Other fracture of right femur, subsequent encounter for closed fracture with malunion  | Diagnosis     | ICD-10-CM |
| S72.8X1Q | Other fracture of right femur, subsequent encounter for open fracture type I or II with malunion                                       | Diagnosis     | ICD-10-CM |
| S72.8X1R | Other fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion                           | Diagnosis     | ICD-10-CM |
| S72.8X1S | Other fracture of right femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.8X2  | Other fracture of left femur   | Diagnosis     | ICD-10-CM |
| S72.8X2A | Other fracture of left femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.8X2B | Other fracture of left femur, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S72.8X2C | Other fracture of left femur, initial encounter for open fracture type IIIA, IIB, or IIC                                | Diagnosis     | ICD-10-CM |
| S72.8X2D | Other fracture of left femur, subsequent encounter for closed fracture with routine healing                             | Diagnosis     | ICD-10-CM |
| S72.8X2E | Other fracture of left femur, subsequent encounter for open fracture type I or II with routine healing                  | Diagnosis     | ICD-10-CM |
| S72.8X2F | Other fracture of left femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing        | Diagnosis     | ICD-10-CM |
| S72.8X2G | Other fracture of left femur, subsequent encounter for closed fracture with delayed healing                             | Diagnosis     | ICD-10-CM |
| S72.8X2H | Other fracture of left femur, subsequent encounter for open fracture type I or II with delayed healing                  | Diagnosis     | ICD-10-CM |
| S72.8X2J | Other fracture of left femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S72.8X2K | Other fracture of left femur, subsequent encounter for closed fracture with nonunion                                    | Diagnosis     | ICD-10-CM |
| S72.8X2M | Other fracture of left femur, subsequent encounter for open fracture type I or II with nonunion                         | Diagnosis     | ICD-10-CM |
| S72.8X2N | Other fracture of left femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion               | Diagnosis     | ICD-10-CM |
| S72.8X2P | Other fracture of left femur, subsequent encounter for closed fracture with malunion                                    | Diagnosis     | ICD-10-CM |
| S72.8X2Q | Other fracture of left femur, subsequent encounter for open fracture type I or II with malunion                         | Diagnosis     | ICD-10-CM |
| S72.8X2R | Other fracture of left femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion               | Diagnosis     | ICD-10-CM |
| S72.8X2S | Other fracture of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.8X9  | Other fracture of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.8X9A | Other fracture of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.8X9B | Other fracture of unspecified femur, initial encounter for open fracture type I or II                                   | Diagnosis     | ICD-10-CM |
| S72.8X9C | Other fracture of unspecified femur, initial encounter for open fracture type IIIA, IIB, or IIC                         | Diagnosis     | ICD-10-CM |
| S72.8X9D | Other fracture of unspecified femur, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S72.8X9E | Other fracture of unspecified femur, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S72.8X9F | Other fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.8X9G | Other fracture of unspecified femur, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S72.8X9H | Other fracture of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S72.8X9J | Other fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.8X9K | Other fracture of unspecified femur, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S72.8X9M | Other fracture of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S72.8X9N | Other fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.8X9P | Other fracture of unspecified femur, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S72.8X9Q | Other fracture of unspecified femur, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S72.8X9R | Other fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion              | Diagnosis     | ICD-10-CM |
| S72.8X9S | Other fracture of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.9    | Unspecified fracture of femur   | Diagnosis     | ICD-10-CM |
| S72.90   | Unspecified fracture of unspecified femur   | Diagnosis     | ICD-10-CM |
| S72.90XA | Unspecified fracture of unspecified femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.90XB | Unspecified fracture of unspecified femur, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S72.90XC | Unspecified fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S72.90XD | Unspecified fracture of unspecified femur, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S72.90XE | Unspecified fracture of unspecified femur, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S72.90XF | Unspecified fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.90XG | Unspecified fracture of unspecified femur, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S72.90XH | Unspecified fracture of unspecified femur, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S72.90XJ | Unspecified fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.90XK | Unspecified fracture of unspecified femur, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S72.90XM | Unspecified fracture of unspecified femur, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S72.90XN | Unspecified fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.90XP | Unspecified fracture of unspecified femur, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S72.90XQ | Unspecified fracture of unspecified femur, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S72.90XR | Unspecified fracture of unspecified femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.90XS | Unspecified fracture of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S72.91   | Unspecified fracture of right femur   | Diagnosis     | ICD-10-CM |
| S72.91XA | Unspecified fracture of right femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.91XB | Unspecified fracture of right femur, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S72.91XC | Unspecified fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC                               | Diagnosis     | ICD-10-CM |
| S72.91XD | Unspecified fracture of right femur, subsequent encounter for closed fracture with routine healing                              | Diagnosis     | ICD-10-CM |
| S72.91XE | Unspecified fracture of right femur, subsequent encounter for open fracture type I or II with routine healing                   | Diagnosis     | ICD-10-CM |
| S72.91XF | Unspecified fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing       | Diagnosis     | ICD-10-CM |
| S72.91XG | Unspecified fracture of right femur, subsequent encounter for closed fracture with delayed healing                              | Diagnosis     | ICD-10-CM |
| S72.91XH | Unspecified fracture of right femur, subsequent encounter for open fracture type I or II with delayed healing                   | Diagnosis     | ICD-10-CM |
| S72.91XJ | Unspecified fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing       | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S72.91XK | Unspecified fracture of right femur, subsequent encounter for closed fracture with nonunion                            | Diagnosis     | ICD-10-CM |
| S72.91XM | Unspecified fracture of right femur, subsequent encounter for open fracture type I or II with nonunion                 | Diagnosis     | ICD-10-CM |
| S72.91XN | Unspecified fracture of right femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion       | Diagnosis     | ICD-10-CM |
| S72.91XP | Unspecified fracture of right femur, subsequent encounter for closed fracture with malunion                            | Diagnosis     | ICD-10-CM |
| S72.91XQ | Unspecified fracture of right femur, subsequent encounter for open fracture type I or II with malunion                 | Diagnosis     | ICD-10-CM |
| S72.91XR | Unspecified fracture of right femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion       | Diagnosis     | ICD-10-CM |
| S72.91XS | Unspecified fracture of right femur, sequela   | Diagnosis     | ICD-10-CM |
| S72.92   | Unspecified fracture of left femur   | Diagnosis     | ICD-10-CM |
| S72.92XA | Unspecified fracture of left femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S72.92XB | Unspecified fracture of left femur, initial encounter for open fracture type I or II                                   | Diagnosis     | ICD-10-CM |
| S72.92XC | Unspecified fracture of left femur, initial encounter for open fracture type IIIA, IIB, or IIC                         | Diagnosis     | ICD-10-CM |
| S72.92XD | Unspecified fracture of left femur, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S72.92XE | Unspecified fracture of left femur, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S72.92XF | Unspecified fracture of left femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S72.92XG | Unspecified fracture of left femur, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S72.92XH | Unspecified fracture of left femur, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S72.92XJ | Unspecified fracture of left femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S72.92XK | Unspecified fracture of left femur, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S72.92XM | Unspecified fracture of left femur, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S72.92XN | Unspecified fracture of left femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S72.92XP | Unspecified fracture of left femur, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S72.92XQ | Unspecified fracture of left femur, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S72.92XR | Unspecified fracture of left femur, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S72.92XS | Unspecified fracture of left femur, sequela  | Diagnosis     | ICD-10-CM |
| S73      | Dislocation and sprain of joint and ligaments of hip   | Diagnosis     | ICD-10-CM |
| S73.0    | Subluxation and dislocation of hip   | Diagnosis     | ICD-10-CM |
| S73.00   | Unspecified subluxation and dislocation of hip   | Diagnosis     | ICD-10-CM |
| S73.001  | Unspecified subluxation of right hip   | Diagnosis     | ICD-10-CM |
| S73.001A | Unspecified subluxation of right hip, initial encounter  | Diagnosis     | ICD-10-CM |
| S73.001D | Unspecified subluxation of right hip, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S73.001S | Unspecified subluxation of right hip, sequela  | Diagnosis     | ICD-10-CM |
| S73.002  | Unspecified subluxation of left hip  | Diagnosis     | ICD-10-CM |
| S73.002A | Unspecified subluxation of left hip, initial encounter   | Diagnosis     | ICD-10-CM |
| S73.002D | Unspecified subluxation of left hip, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S73.002S | Unspecified subluxation of left hip, sequela   | Diagnosis     | ICD-10-CM |
| S73.003  | Unspecified subluxation of unspecified hip   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S73.003A | Unspecified subluxation of unspecified hip, initial encounter    | Diagnosis     | ICD-10-CM |
| S73.003D | Unspecified subluxation of unspecified hip, subsequent encounter | Diagnosis     | ICD-10-CM |
| S73.003S | Unspecified subluxation of unspecified hip, sequela              | Diagnosis     | ICD-10-CM |
| S73.004  | Unspecified dislocation of right hip                             | Diagnosis     | ICD-10-CM |
| S73.004A | Unspecified dislocation of right hip, initial encounter          | Diagnosis     | ICD-10-CM |
| S73.004D | Unspecified dislocation of right hip, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S73.004S | Unspecified dislocation of right hip, sequela                    | Diagnosis     | ICD-10-CM |
| S73.005  | Unspecified dislocation of left hip                              | Diagnosis     | ICD-10-CM |
| S73.005A | Unspecified dislocation of left hip, initial encounter           | Diagnosis     | ICD-10-CM |
| S73.005D | Unspecified dislocation of left hip, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S73.005S | Unspecified dislocation of left hip, sequela                     | Diagnosis     | ICD-10-CM |
| S73.006  | Unspecified dislocation of unspecified hip                       | Diagnosis     | ICD-10-CM |
| S73.006A | Unspecified dislocation of unspecified hip, initial encounter    | Diagnosis     | ICD-10-CM |
| S73.006D | Unspecified dislocation of unspecified hip, subsequent encounter | Diagnosis     | ICD-10-CM |
| S73.006S | Unspecified dislocation of unspecified hip, sequela              | Diagnosis     | ICD-10-CM |
| S73.01   | Posterior subluxation and dislocation of hip                     | Diagnosis     | ICD-10-CM |
| S73.011  | Posterior subluxation of right hip                               | Diagnosis     | ICD-10-CM |
| S73.011A | Posterior subluxation of right hip, initial encounter            | Diagnosis     | ICD-10-CM |
| S73.011D | Posterior subluxation of right hip, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S73.011S | Posterior subluxation of right hip, sequela                      | Diagnosis     | ICD-10-CM |
| S73.012  | Posterior subluxation of left hip                                | Diagnosis     | ICD-10-CM |
| S73.012A | Posterior subluxation of left hip, initial encounter             | Diagnosis     | ICD-10-CM |
| S73.012D | Posterior subluxation of left hip, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S73.012S | Posterior subluxation of left hip, sequela                       | Diagnosis     | ICD-10-CM |
| S73.013  | Posterior subluxation of unspecified hip                         | Diagnosis     | ICD-10-CM |
| S73.013A | Posterior subluxation of unspecified hip, initial encounter      | Diagnosis     | ICD-10-CM |
| S73.013D | Posterior subluxation of unspecified hip, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S73.013S | Posterior subluxation of unspecified hip, sequela                | Diagnosis     | ICD-10-CM |
| S73.014  | Posterior dislocation of right hip                               | Diagnosis     | ICD-10-CM |
| S73.014A | Posterior dislocation of right hip, initial encounter            | Diagnosis     | ICD-10-CM |
| S73.014D | Posterior dislocation of right hip, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S73.014S | Posterior dislocation of right hip, sequela                      | Diagnosis     | ICD-10-CM |
| S73.015  | Posterior dislocation of left hip                                | Diagnosis     | ICD-10-CM |
| S73.015A | Posterior dislocation of left hip, initial encounter             | Diagnosis     | ICD-10-CM |
| S73.015D | Posterior dislocation of left hip, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S73.015S | Posterior dislocation of left hip, sequela                       | Diagnosis     | ICD-10-CM |
| S73.016  | Posterior dislocation of unspecified hip                         | Diagnosis     | ICD-10-CM |
| S73.016A | Posterior dislocation of unspecified hip, initial encounter      | Diagnosis     | ICD-10-CM |
| S73.016D | Posterior dislocation of unspecified hip, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S73.016S | Posterior dislocation of unspecified hip, sequela                | Diagnosis     | ICD-10-CM |
| S73.02   | Obturator subluxation and dislocation of hip                     | Diagnosis     | ICD-10-CM |
| S73.021  | Obturator subluxation of right hip                               | Diagnosis     | ICD-10-CM |
| S73.021A | Obturator subluxation of right hip, initial encounter            | Diagnosis     | ICD-10-CM |
| S73.021D | Obturator subluxation of right hip, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S73.021S | Obturator subluxation of right hip, sequela                      | Diagnosis     | ICD-10-CM |
| S73.022  | Obturator subluxation of left hip                                | Diagnosis     | ICD-10-CM |
| S73.022A | Obturator subluxation of left hip, initial encounter             | Diagnosis     | ICD-10-CM |
| S73.022D | Obturator subluxation of left hip, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S73.022S | Obturator subluxation of left hip, sequela                       | Diagnosis     | ICD-10-CM |
| S73.023  | Obturator subluxation of unspecified hip                         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S73.023A | Obturator subluxation of unspecified hip, initial encounter         | Diagnosis     | ICD-10-CM |
| S73.023D | Obturator subluxation of unspecified hip, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S73.023S | Obturator subluxation of unspecified hip, sequela                   | Diagnosis     | ICD-10-CM |
| S73.024  | Obturator dislocation of right hip                                  | Diagnosis     | ICD-10-CM |
| S73.024A | Obturator dislocation of right hip, initial encounter               | Diagnosis     | ICD-10-CM |
| S73.024D | Obturator dislocation of right hip, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S73.024S | Obturator dislocation of right hip, sequela                         | Diagnosis     | ICD-10-CM |
| S73.025  | Obturator dislocation of left hip                                   | Diagnosis     | ICD-10-CM |
| S73.025A | Obturator dislocation of left hip, initial encounter                | Diagnosis     | ICD-10-CM |
| S73.025D | Obturator dislocation of left hip, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S73.025S | Obturator dislocation of left hip, sequela                          | Diagnosis     | ICD-10-CM |
| S73.026  | Obturator dislocation of unspecified hip                            | Diagnosis     | ICD-10-CM |
| S73.026A | Obturator dislocation of unspecified hip, initial encounter         | Diagnosis     | ICD-10-CM |
| S73.026D | Obturator dislocation of unspecified hip, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S73.026S | Obturator dislocation of unspecified hip, sequela                   | Diagnosis     | ICD-10-CM |
| S73.03   | Other anterior subluxation and dislocation of hip                   | Diagnosis     | ICD-10-CM |
| S73.031  | Other anterior subluxation of right hip                             | Diagnosis     | ICD-10-CM |
| S73.031A | Other anterior subluxation of right hip, initial encounter          | Diagnosis     | ICD-10-CM |
| S73.031D | Other anterior subluxation of right hip, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S73.031S | Other anterior subluxation of right hip, sequela                    | Diagnosis     | ICD-10-CM |
| S73.032  | Other anterior subluxation of left hip                              | Diagnosis     | ICD-10-CM |
| S73.032A | Other anterior subluxation of left hip, initial encounter           | Diagnosis     | ICD-10-CM |
| S73.032D | Other anterior subluxation of left hip, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S73.032S | Other anterior subluxation of left hip, sequela                     | Diagnosis     | ICD-10-CM |
| S73.033  | Other anterior subluxation of unspecified hip                       | Diagnosis     | ICD-10-CM |
| S73.033A | Other anterior subluxation of unspecified hip, initial encounter    | Diagnosis     | ICD-10-CM |
| S73.033D | Other anterior subluxation of unspecified hip, subsequent encounter | Diagnosis     | ICD-10-CM |
| S73.033S | Other anterior subluxation of unspecified hip, sequela              | Diagnosis     | ICD-10-CM |
| S73.034  | Other anterior dislocation of right hip                             | Diagnosis     | ICD-10-CM |
| S73.034A | Other anterior dislocation of right hip, initial encounter          | Diagnosis     | ICD-10-CM |
| S73.034D | Other anterior dislocation of right hip, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S73.034S | Other anterior dislocation of right hip, sequela                    | Diagnosis     | ICD-10-CM |
| S73.035  | Other anterior dislocation of left hip                              | Diagnosis     | ICD-10-CM |
| S73.035A | Other anterior dislocation of left hip, initial encounter           | Diagnosis     | ICD-10-CM |
| S73.035D | Other anterior dislocation of left hip, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S73.035S | Other anterior dislocation of left hip, sequela                     | Diagnosis     | ICD-10-CM |
| S73.036  | Other anterior dislocation of unspecified hip                       | Diagnosis     | ICD-10-CM |
| S73.036A | Other anterior dislocation of unspecified hip, initial encounter    | Diagnosis     | ICD-10-CM |
| S73.036D | Other anterior dislocation of unspecified hip, subsequent encounter | Diagnosis     | ICD-10-CM |
| S73.036S | Other anterior dislocation of unspecified hip, sequela              | Diagnosis     | ICD-10-CM |
| S73.04   | Central subluxation and dislocation of hip                          | Diagnosis     | ICD-10-CM |
| S73.041  | Central subluxation of right hip                                    | Diagnosis     | ICD-10-CM |
| S73.041A | Central subluxation of right hip, initial encounter                 | Diagnosis     | ICD-10-CM |
| S73.041D | Central subluxation of right hip, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S73.041S | Central subluxation of right hip, sequela                           | Diagnosis     | ICD-10-CM |
| S73.042  | Central subluxation of left hip                                     | Diagnosis     | ICD-10-CM |
| S73.042A | Central subluxation of left hip, initial encounter                  | Diagnosis     | ICD-10-CM |
| S73.042D | Central subluxation of left hip, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S73.042S | Central subluxation of left hip, sequela                            | Diagnosis     | ICD-10-CM |
| S73.043  | Central subluxation of unspecified hip                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S73.043A | Central subluxation of unspecified hip, initial encounter            | Diagnosis     | ICD-10-CM |
| S73.043D | Central subluxation of unspecified hip, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S73.043S | Central subluxation of unspecified hip, sequela                      | Diagnosis     | ICD-10-CM |
| S73.044  | Central dislocation of right hip                                     | Diagnosis     | ICD-10-CM |
| S73.044A | Central dislocation of right hip, initial encounter                  | Diagnosis     | ICD-10-CM |
| S73.044D | Central dislocation of right hip, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S73.044S | Central dislocation of right hip, sequela                            | Diagnosis     | ICD-10-CM |
| S73.045  | Central dislocation of left hip                                      | Diagnosis     | ICD-10-CM |
| S73.045A | Central dislocation of left hip, initial encounter                   | Diagnosis     | ICD-10-CM |
| S73.045D | Central dislocation of left hip, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S73.045S | Central dislocation of left hip, sequela                             | Diagnosis     | ICD-10-CM |
| S73.046  | Central dislocation of unspecified hip                               | Diagnosis     | ICD-10-CM |
| S73.046A | Central dislocation of unspecified hip, initial encounter            | Diagnosis     | ICD-10-CM |
| S73.046D | Central dislocation of unspecified hip, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S73.046S | Central dislocation of unspecified hip, sequela                      | Diagnosis     | ICD-10-CM |
| S73.1    | Sprain of hip  | Diagnosis     | ICD-10-CM |
| S73.10   | Unspecified sprain of hip  | Diagnosis     | ICD-10-CM |
| S73.101  | Unspecified sprain of right hip                                      | Diagnosis     | ICD-10-CM |
| S73.101A | Unspecified sprain of right hip, initial encounter                   | Diagnosis     | ICD-10-CM |
| S73.101D | Unspecified sprain of right hip, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S73.101S | Unspecified sprain of right hip, sequela                             | Diagnosis     | ICD-10-CM |
| S73.102  | Unspecified sprain of left hip                                       | Diagnosis     | ICD-10-CM |
| S73.102A | Unspecified sprain of left hip, initial encounter                    | Diagnosis     | ICD-10-CM |
| S73.102D | Unspecified sprain of left hip, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S73.102S | Unspecified sprain of left hip, sequela                              | Diagnosis     | ICD-10-CM |
| S73.109  | Unspecified sprain of unspecified hip                                | Diagnosis     | ICD-10-CM |
| S73.109A | Unspecified sprain of unspecified hip, initial encounter             | Diagnosis     | ICD-10-CM |
| S73.109D | Unspecified sprain of unspecified hip, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S73.109S | Unspecified sprain of unspecified hip, sequela                       | Diagnosis     | ICD-10-CM |
| S73.11   | Iliofemoral ligament sprain of hip                                   | Diagnosis     | ICD-10-CM |
| S73.111  | Iliofemoral ligament sprain of right hip                             | Diagnosis     | ICD-10-CM |
| S73.111A | Iliofemoral ligament sprain of right hip, initial encounter          | Diagnosis     | ICD-10-CM |
| S73.111D | Iliofemoral ligament sprain of right hip, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S73.111S | Iliofemoral ligament sprain of right hip, sequela                    | Diagnosis     | ICD-10-CM |
| S73.112  | Iliofemoral ligament sprain of left hip                              | Diagnosis     | ICD-10-CM |
| S73.112A | Iliofemoral ligament sprain of left hip, initial encounter           | Diagnosis     | ICD-10-CM |
| S73.112D | Iliofemoral ligament sprain of left hip, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S73.112S | Iliofemoral ligament sprain of left hip, sequela                     | Diagnosis     | ICD-10-CM |
| S73.119  | Iliofemoral ligament sprain of unspecified hip                       | Diagnosis     | ICD-10-CM |
| S73.119A | Iliofemoral ligament sprain of unspecified hip, initial encounter    | Diagnosis     | ICD-10-CM |
| S73.119D | Iliofemoral ligament sprain of unspecified hip, subsequent encounter | Diagnosis     | ICD-10-CM |
| S73.119S | Iliofemoral ligament sprain of unspecified hip, sequela              | Diagnosis     | ICD-10-CM |
| S73.12   | Ischiocapsular (ligament) sprain of hip                              | Diagnosis     | ICD-10-CM |
| S73.121  | Ischiocapsular ligament sprain of right hip                          | Diagnosis     | ICD-10-CM |
| S73.121A | Ischiocapsular ligament sprain of right hip, initial encounter       | Diagnosis     | ICD-10-CM |
| S73.121D | Ischiocapsular ligament sprain of right hip, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S73.121S | Ischiocapsular ligament sprain of right hip, sequela                 | Diagnosis     | ICD-10-CM |
| S73.122  | Ischiocapsular ligament sprain of left hip                           | Diagnosis     | ICD-10-CM |
| S73.122A | Ischiocapsular ligament sprain of left hip, initial encounter        | Diagnosis     | ICD-10-CM |
| S73.122D | Ischiocapsular ligament sprain of left hip, subsequent encounter     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S73.122S | Ischiocapsular ligament sprain of left hip, sequela   | Diagnosis     | ICD-10-CM |
| S73.129  | Ischiocapsular ligament sprain of unspecified hip   | Diagnosis     | ICD-10-CM |
| S73.129A | Ischiocapsular ligament sprain of unspecified hip, initial encounter                            | Diagnosis     | ICD-10-CM |
| S73.129D | Ischiocapsular ligament sprain of unspecified hip, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S73.129S | Ischiocapsular ligament sprain of unspecified hip, sequela                                      | Diagnosis     | ICD-10-CM |
| S73.19   | Other sprain of hip   | Diagnosis     | ICD-10-CM |
| S73.191  | Other sprain of right hip   | Diagnosis     | ICD-10-CM |
| S73.191A | Other sprain of right hip, initial encounter  | Diagnosis     | ICD-10-CM |
| S73.191D | Other sprain of right hip, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S73.191S | Other sprain of right hip, sequela  | Diagnosis     | ICD-10-CM |
| S73.192  | Other sprain of left hip  | Diagnosis     | ICD-10-CM |
| S73.192A | Other sprain of left hip, initial encounter   | Diagnosis     | ICD-10-CM |
| S73.192D | Other sprain of left hip, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S73.192S | Other sprain of left hip, sequela   | Diagnosis     | ICD-10-CM |
| S73.199  | Other sprain of unspecified hip   | Diagnosis     | ICD-10-CM |
| S73.199A | Other sprain of unspecified hip, initial encounter  | Diagnosis     | ICD-10-CM |
| S73.199D | Other sprain of unspecified hip, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S73.199S | Other sprain of unspecified hip, sequela  | Diagnosis     | ICD-10-CM |
| S74      | Injury of nerves at hip and thigh level   | Diagnosis     | ICD-10-CM |
| S74.0    | Injury of sciatic nerve at hip and thigh level  | Diagnosis     | ICD-10-CM |
| S74.00   | Injury of sciatic nerve at hip and thigh level, unspecified leg                                 | Diagnosis     | ICD-10-CM |
| S74.00XA | Injury of sciatic nerve at hip and thigh level, unspecified leg, initial encounter              | Diagnosis     | ICD-10-CM |
| S74.00XD | Injury of sciatic nerve at hip and thigh level, unspecified leg, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S74.00XS | Injury of sciatic nerve at hip and thigh level, unspecified leg, sequela                        | Diagnosis     | ICD-10-CM |
| S74.01   | Injury of sciatic nerve at hip and thigh level, right leg                                       | Diagnosis     | ICD-10-CM |
| S74.01XA | Injury of sciatic nerve at hip and thigh level, right leg, initial encounter                    | Diagnosis     | ICD-10-CM |
| S74.01XD | Injury of sciatic nerve at hip and thigh level, right leg, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S74.01XS | Injury of sciatic nerve at hip and thigh level, right leg, sequela                              | Diagnosis     | ICD-10-CM |
| S74.02   | Injury of sciatic nerve at hip and thigh level, left leg  | Diagnosis     | ICD-10-CM |
| S74.02XA | Injury of sciatic nerve at hip and thigh level, left leg, initial encounter                     | Diagnosis     | ICD-10-CM |
| S74.02XD | Injury of sciatic nerve at hip and thigh level, left leg, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S74.02XS | Injury of sciatic nerve at hip and thigh level, left leg, sequela                               | Diagnosis     | ICD-10-CM |
| S74.1    | Injury of femoral nerve at hip and thigh level  | Diagnosis     | ICD-10-CM |
| S74.10   | Injury of femoral nerve at hip and thigh level, unspecified leg                                 | Diagnosis     | ICD-10-CM |
| S74.10XA | Injury of femoral nerve at hip and thigh level, unspecified leg, initial encounter              | Diagnosis     | ICD-10-CM |
| S74.10XD | Injury of femoral nerve at hip and thigh level, unspecified leg, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S74.10XS | Injury of femoral nerve at hip and thigh level, unspecified leg, sequela                        | Diagnosis     | ICD-10-CM |
| S74.11   | Injury of femoral nerve at hip and thigh level, right leg                                       | Diagnosis     | ICD-10-CM |
| S74.11XA | Injury of femoral nerve at hip and thigh level, right leg, initial encounter                    | Diagnosis     | ICD-10-CM |
| S74.11XD | Injury of femoral nerve at hip and thigh level, right leg, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S74.11XS | Injury of femoral nerve at hip and thigh level, right leg, sequela                              | Diagnosis     | ICD-10-CM |
| S74.12   | Injury of femoral nerve at hip and thigh level, left leg  | Diagnosis     | ICD-10-CM |
| S74.12XA | Injury of femoral nerve at hip and thigh level, left leg, initial encounter                     | Diagnosis     | ICD-10-CM |
| S74.12XD | Injury of femoral nerve at hip and thigh level, left leg, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S74.12XS | Injury of femoral nerve at hip and thigh level, left leg, sequela                               | Diagnosis     | ICD-10-CM |
| S74.2    | Injury of cutaneous sensory nerve at hip and thigh level  | Diagnosis     | ICD-10-CM |
| S74.20   | Injury of cutaneous sensory nerve at hip and thigh level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S74.20XA | Injury of cutaneous sensory nerve at hip and thigh level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S74.20XD | Injury of cutaneous sensory nerve at hip and thigh level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S74.20XS | Injury of cutaneous sensory nerve at hip and thigh level, unspecified leg, sequela        | Diagnosis     | ICD-10-CM |
| S74.21   | Injury of cutaneous sensory nerve at hip and high level, right leg                        | Diagnosis     | ICD-10-CM |
| S74.21XA | Injury of cutaneous sensory nerve at hip and high level, right leg, initial encounter     | Diagnosis     | ICD-10-CM |
| S74.21XD | Injury of cutaneous sensory nerve at hip and high level, right leg, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S74.21XS | Injury of cutaneous sensory nerve at hip and high level, right leg, sequela               | Diagnosis     | ICD-10-CM |
| S74.22   | Injury of cutaneous sensory nerve at hip and thigh level, left leg                        | Diagnosis     | ICD-10-CM |
| S74.22XA | Injury of cutaneous sensory nerve at hip and thigh level, left leg, initial encounter     | Diagnosis     | ICD-10-CM |
| S74.22XD | Injury of cutaneous sensory nerve at hip and thigh level, left leg, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S74.22XS | Injury of cutaneous sensory nerve at hip and thigh level, left leg, sequela               | Diagnosis     | ICD-10-CM |
| S74.8    | Injury of other nerves at hip and thigh level   | Diagnosis     | ICD-10-CM |
| S74.8X   | Injury of other nerves at hip and thigh level   | Diagnosis     | ICD-10-CM |
| S74.8X1  | Injury of other nerves at hip and thigh level, right leg                                  | Diagnosis     | ICD-10-CM |
| S74.8X1A | Injury of other nerves at hip and thigh level, right leg, initial encounter               | Diagnosis     | ICD-10-CM |
| S74.8X1D | Injury of other nerves at hip and thigh level, right leg, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S74.8X1S | Injury of other nerves at hip and thigh level, right leg, sequela                         | Diagnosis     | ICD-10-CM |
| S74.8X2  | Injury of other nerves at hip and thigh level, left leg                                   | Diagnosis     | ICD-10-CM |
| S74.8X2A | Injury of other nerves at hip and thigh level, left leg, initial encounter                | Diagnosis     | ICD-10-CM |
| S74.8X2D | Injury of other nerves at hip and thigh level, left leg, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S74.8X2S | Injury of other nerves at hip and thigh level, left leg, sequela                          | Diagnosis     | ICD-10-CM |
| S74.8X9  | Injury of other nerves at hip and thigh level, unspecified leg                            | Diagnosis     | ICD-10-CM |
| S74.8X9A | Injury of other nerves at hip and thigh level, unspecified leg, initial encounter         | Diagnosis     | ICD-10-CM |
| S74.8X9D | Injury of other nerves at hip and thigh level, unspecified leg, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S74.8X9S | Injury of other nerves at hip and thigh level, unspecified leg, sequela                   | Diagnosis     | ICD-10-CM |
| S74.9    | Injury of unspecified nerve at hip and thigh level  | Diagnosis     | ICD-10-CM |
| S74.90   | Injury of unspecified nerve at hip and thigh level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S74.90XA | Injury of unspecified nerve at hip and thigh level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S74.90XD | Injury of unspecified nerve at hip and thigh level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S74.90XS | Injury of unspecified nerve at hip and thigh level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S74.91   | Injury of unspecified nerve at hip and thigh level, right leg                             | Diagnosis     | ICD-10-CM |
| S74.91XA | Injury of unspecified nerve at hip and thigh level, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S74.91XD | Injury of unspecified nerve at hip and thigh level, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S74.91XS | Injury of unspecified nerve at hip and thigh level, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S74.92   | Injury of unspecified nerve at hip and thigh level, left leg                              | Diagnosis     | ICD-10-CM |
| S74.92XA | Injury of unspecified nerve at hip and thigh level, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S74.92XD | Injury of unspecified nerve at hip and thigh level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S74.92XS | Injury of unspecified nerve at hip and thigh level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S75      | Injury of blood vessels at hip and thigh level  | Diagnosis     | ICD-10-CM |
| S75.0    | Injury of femoral artery  | Diagnosis     | ICD-10-CM |
| S75.00   | Unspecified injury of femoral artery  | Diagnosis     | ICD-10-CM |
| S75.001  | Unspecified injury of femoral artery, right leg   | Diagnosis     | ICD-10-CM |
| S75.001A | Unspecified injury of femoral artery, right leg, initial encounter                        | Diagnosis     | ICD-10-CM |
| S75.001D | Unspecified injury of femoral artery, right leg, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S75.001S | Unspecified injury of femoral artery, right leg, sequela                                  | Diagnosis     | ICD-10-CM |
| S75.002  | Unspecified injury of femoral artery, left leg  | Diagnosis     | ICD-10-CM |
| S75.002A | Unspecified injury of femoral artery, left leg, initial encounter                         | Diagnosis     | ICD-10-CM |
| S75.002D | Unspecified injury of femoral artery, left leg, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S75.002S | Unspecified injury of femoral artery, left leg, sequela                                   | Diagnosis     | ICD-10-CM |
| S75.009  | Unspecified injury of femoral artery, unspecified leg                                     | Diagnosis     | ICD-10-CM |
| S75.009A | Unspecified injury of femoral artery, unspecified leg, initial encounter                  | Diagnosis     | ICD-10-CM |
| S75.009D | Unspecified injury of femoral artery, unspecified leg, subsequent encounter               | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S75.009S | Unspecified injury of femoral artery, unspecified leg, sequela                             | Diagnosis     | ICD-10-CM |
| S75.01   | Minor laceration of femoral artery   | Diagnosis     | ICD-10-CM |
| S75.011  | Minor laceration of femoral artery, right leg  | Diagnosis     | ICD-10-CM |
| S75.011A | Minor laceration of femoral artery, right leg, initial encounter                           | Diagnosis     | ICD-10-CM |
| S75.011D | Minor laceration of femoral artery, right leg, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S75.011S | Minor laceration of femoral artery, right leg, sequela                                     | Diagnosis     | ICD-10-CM |
| S75.012  | Minor laceration of femoral artery, left leg   | Diagnosis     | ICD-10-CM |
| S75.012A | Minor laceration of femoral artery, left leg, initial encounter                            | Diagnosis     | ICD-10-CM |
| S75.012D | Minor laceration of femoral artery, left leg, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S75.012S | Minor laceration of femoral artery, left leg, sequela                                      | Diagnosis     | ICD-10-CM |
| S75.019  | Minor laceration of femoral artery, unspecified leg  | Diagnosis     | ICD-10-CM |
| S75.019A | Minor laceration of femoral artery, unspecified leg, initial encounter                     | Diagnosis     | ICD-10-CM |
| S75.019D | Minor laceration of femoral artery, unspecified leg, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S75.019S | Minor laceration of femoral artery, unspecified leg, sequela                               | Diagnosis     | ICD-10-CM |
| S75.02   | Major laceration of femoral artery   | Diagnosis     | ICD-10-CM |
| S75.021  | Major laceration of femoral artery, right leg  | Diagnosis     | ICD-10-CM |
| S75.021A | Major laceration of femoral artery, right leg, initial encounter                           | Diagnosis     | ICD-10-CM |
| S75.021D | Major laceration of femoral artery, right leg, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S75.021S | Major laceration of femoral artery, right leg, sequela                                     | Diagnosis     | ICD-10-CM |
| S75.022  | Major laceration of femoral artery, left leg   | Diagnosis     | ICD-10-CM |
| S75.022A | Major laceration of femoral artery, left leg, initial encounter                            | Diagnosis     | ICD-10-CM |
| S75.022D | Major laceration of femoral artery, left leg, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S75.022S | Major laceration of femoral artery, left leg, sequela                                      | Diagnosis     | ICD-10-CM |
| S75.029  | Major laceration of femoral artery, unspecified leg  | Diagnosis     | ICD-10-CM |
| S75.029A | Major laceration of femoral artery, unspecified leg, initial encounter                     | Diagnosis     | ICD-10-CM |
| S75.029D | Major laceration of femoral artery, unspecified leg, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S75.029S | Major laceration of femoral artery, unspecified leg, sequela                               | Diagnosis     | ICD-10-CM |
| S75.09   | Other specified injury of femoral artery   | Diagnosis     | ICD-10-CM |
| S75.091  | Other specified injury of femoral artery, right leg  | Diagnosis     | ICD-10-CM |
| S75.091A | Other specified injury of femoral artery, right leg, initial encounter                     | Diagnosis     | ICD-10-CM |
| S75.091D | Other specified injury of femoral artery, right leg, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S75.091S | Other specified injury of femoral artery, right leg, sequela                               | Diagnosis     | ICD-10-CM |
| S75.092  | Other specified injury of femoral artery, left leg   | Diagnosis     | ICD-10-CM |
| S75.092A | Other specified injury of femoral artery, left leg, initial encounter                      | Diagnosis     | ICD-10-CM |
| S75.092D | Other specified injury of femoral artery, left leg, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S75.092S | Other specified injury of femoral artery, left leg, sequela                                | Diagnosis     | ICD-10-CM |
| S75.099  | Other specified injury of femoral artery, unspecified leg                                  | Diagnosis     | ICD-10-CM |
| S75.099A | Other specified injury of femoral artery, unspecified leg, initial encounter               | Diagnosis     | ICD-10-CM |
| S75.099D | Other specified injury of femoral artery, unspecified leg, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S75.099S | Other specified injury of femoral artery, unspecified leg, sequela                         | Diagnosis     | ICD-10-CM |
| S75.1    | Injury of femoral vein at hip and thigh level  | Diagnosis     | ICD-10-CM |
| S75.10   | Unspecified injury of femoral vein at hip and thigh level                                  | Diagnosis     | ICD-10-CM |
| S75.101  | Unspecified injury of femoral vein at hip and thigh level, right leg                       | Diagnosis     | ICD-10-CM |
| S75.101A | Unspecified injury of femoral vein at hip and thigh level, right leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S75.101D | Unspecified injury of femoral vein at hip and thigh level, right leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S75.101S | Unspecified injury of femoral vein at hip and thigh level, right leg, sequela              | Diagnosis     | ICD-10-CM |
| S75.102  | Unspecified injury of femoral vein at hip and thigh level, left leg                        | Diagnosis     | ICD-10-CM |
| S75.102A | Unspecified injury of femoral vein at hip and thigh level, left leg, initial encounter     | Diagnosis     | ICD-10-CM |
| S75.102D | Unspecified injury of femoral vein at hip and thigh level, left leg, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S75.102S | Unspecified injury of femoral vein at hip and thigh level, left leg, sequela               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S75.109  | Unspecified injury of femoral vein at hip and thigh level, unspecified leg                           | Diagnosis     | ICD-10-CM |
| S75.109A | Unspecified injury of femoral vein at hip and thigh level, unspecified leg, initial encounter        | Diagnosis     | ICD-10-CM |
| S75.109D | Unspecified injury of femoral vein at hip and thigh level, unspecified leg, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S75.109S | Unspecified injury of femoral vein at hip and thigh level, unspecified leg, sequela                  | Diagnosis     | ICD-10-CM |
| S75.11   | Minor laceration of femoral vein at hip and thigh level  | Diagnosis     | ICD-10-CM |
| S75.111  | Minor laceration of femoral vein at hip and thigh level, right leg                                   | Diagnosis     | ICD-10-CM |
| S75.111A | Minor laceration of femoral vein at hip and thigh level, right leg, initial encounter                | Diagnosis     | ICD-10-CM |
| S75.111D | Minor laceration of femoral vein at hip and thigh level, right leg, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S75.111S | Minor laceration of femoral vein at hip and thigh level, right leg, sequela                          | Diagnosis     | ICD-10-CM |
| S75.112  | Minor laceration of femoral vein at hip and thigh level, left leg                                    | Diagnosis     | ICD-10-CM |
| S75.112A | Minor laceration of femoral vein at hip and thigh level, left leg, initial encounter                 | Diagnosis     | ICD-10-CM |
| S75.112D | Minor laceration of femoral vein at hip and thigh level, left leg, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S75.112S | Minor laceration of femoral vein at hip and thigh level, left leg, sequela                           | Diagnosis     | ICD-10-CM |
| S75.119  | Minor laceration of femoral vein at hip and thigh level, unspecified leg                             | Diagnosis     | ICD-10-CM |
| S75.119A | Minor laceration of femoral vein at hip and thigh level, unspecified leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S75.119D | Minor laceration of femoral vein at hip and thigh level, unspecified leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S75.119S | Minor laceration of femoral vein at hip and thigh level, unspecified leg, sequela                    | Diagnosis     | ICD-10-CM |
| S75.12   | Major laceration of femoral vein at hip and thigh level  | Diagnosis     | ICD-10-CM |
| S75.121  | Major laceration of femoral vein at hip and thigh level, right leg                                   | Diagnosis     | ICD-10-CM |
| S75.121A | Major laceration of femoral vein at hip and thigh level, right leg, initial encounter                | Diagnosis     | ICD-10-CM |
| S75.121D | Major laceration of femoral vein at hip and thigh level, right leg, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S75.121S | Major laceration of femoral vein at hip and thigh level, right leg, sequela                          | Diagnosis     | ICD-10-CM |
| S75.122  | Major laceration of femoral vein at hip and thigh level, left leg                                    | Diagnosis     | ICD-10-CM |
| S75.122A | Major laceration of femoral vein at hip and thigh level, left leg, initial encounter                 | Diagnosis     | ICD-10-CM |
| S75.122D | Major laceration of femoral vein at hip and thigh level, left leg, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S75.122S | Major laceration of femoral vein at hip and thigh level, left leg, sequela                           | Diagnosis     | ICD-10-CM |
| S75.129  | Major laceration of femoral vein at hip and thigh level, unspecified leg                             | Diagnosis     | ICD-10-CM |
| S75.129A | Major laceration of femoral vein at hip and thigh level, unspecified leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S75.129D | Major laceration of femoral vein at hip and thigh level, unspecified leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S75.129S | Major laceration of femoral vein at hip and thigh level, unspecified leg, sequela                    | Diagnosis     | ICD-10-CM |
| S75.19   | Other specified injury of femoral vein at hip and thigh level  | Diagnosis     | ICD-10-CM |
| S75.191  | Other specified injury of femoral vein at hip and thigh level, right leg                             | Diagnosis     | ICD-10-CM |
| S75.191A | Other specified injury of femoral vein at hip and thigh level, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S75.191D | Other specified injury of femoral vein at hip and thigh level, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S75.191S | Other specified injury of femoral vein at hip and thigh level, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S75.192  | Other specified injury of femoral vein at hip and thigh level, left leg                              | Diagnosis     | ICD-10-CM |
| S75.192A | Other specified injury of femoral vein at hip and thigh level, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S75.192D | Other specified injury of femoral vein at hip and thigh level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S75.192S | Other specified injury of femoral vein at hip and thigh level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S75.199  | Other specified injury of femoral vein at hip and thigh level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S75.199A | Other specified injury of femoral vein at hip and thigh level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S75.199D | Other specified injury of femoral vein at hip and thigh level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S75.199S | Other specified injury of femoral vein at hip and thigh level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S75.2    | Injury of greater saphenous vein at hip and thigh level  | Diagnosis     | ICD-10-CM |
| S75.20   | Unspecified injury of greater saphenous vein at hip and thigh level                                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S75.201  | Unspecified injury of greater saphenous vein at hip and thigh level, right leg                             | Diagnosis     | ICD-10-CM |
| S75.201A | Unspecified injury of greater saphenous vein at hip and thigh level, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S75.201D | Unspecified injury of greater saphenous vein at hip and thigh level, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S75.201S | Unspecified injury of greater saphenous vein at hip and thigh level, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S75.202  | Unspecified injury of greater saphenous vein at hip and thigh level, left leg                              | Diagnosis     | ICD-10-CM |
| S75.202A | Unspecified injury of greater saphenous vein at hip and thigh level, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S75.202D | Unspecified injury of greater saphenous vein at hip and thigh level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S75.202S | Unspecified injury of greater saphenous vein at hip and thigh level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S75.209  | Unspecified injury of greater saphenous vein at hip and thigh level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S75.209A | Unspecified injury of greater saphenous vein at hip and thigh level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S75.209D | Unspecified injury of greater saphenous vein at hip and thigh level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S75.209S | Unspecified injury of greater saphenous vein at hip and thigh level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S75.21   | Minor laceration of greater saphenous vein at hip and thigh level  | Diagnosis     | ICD-10-CM |
| S75.211  | Minor laceration of greater saphenous vein at hip and thigh level, right leg                               | Diagnosis     | ICD-10-CM |
| S75.211A | Minor laceration of greater saphenous vein at hip and thigh level, right leg, initial encounter            | Diagnosis     | ICD-10-CM |
| S75.211D | Minor laceration of greater saphenous vein at hip and thigh level, right leg, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S75.211S | Minor laceration of greater saphenous vein at hip and thigh level, right leg, sequela                      | Diagnosis     | ICD-10-CM |
| S75.212  | Minor laceration of greater saphenous vein at hip and thigh level, left leg                                | Diagnosis     | ICD-10-CM |
| S75.212A | Minor laceration of greater saphenous vein at hip and thigh level, left leg, initial encounter             | Diagnosis     | ICD-10-CM |
| S75.212D | Minor laceration of greater saphenous vein at hip and thigh level, left leg, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S75.212S | Minor laceration of greater saphenous vein at hip and thigh level, left leg, sequela                       | Diagnosis     | ICD-10-CM |
| S75.219  | Minor laceration of greater saphenous vein at hip and thigh level, unspecified leg                         | Diagnosis     | ICD-10-CM |
| S75.219A | Minor laceration of greater saphenous vein at hip and thigh level, unspecified leg, initial encounter      | Diagnosis     | ICD-10-CM |
| S75.219D | Minor laceration of greater saphenous vein at hip and thigh level, unspecified leg, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S75.219S | Minor laceration of greater saphenous vein at hip and thigh level, unspecified leg, sequela                | Diagnosis     | ICD-10-CM |
| S75.22   | Major laceration of greater saphenous vein at hip and thigh level  | Diagnosis     | ICD-10-CM |
| S75.221  | Major laceration of greater saphenous vein at hip and thigh level, right leg                               | Diagnosis     | ICD-10-CM |
| S75.221A | Major laceration of greater saphenous vein at hip and thigh level, right leg, initial encounter            | Diagnosis     | ICD-10-CM |
| S75.221D | Major laceration of greater saphenous vein at hip and thigh level, right leg, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S75.221S | Major laceration of greater saphenous vein at hip and thigh level, right leg, sequela                      | Diagnosis     | ICD-10-CM |
| S75.222  | Major laceration of greater saphenous vein at hip and thigh level, left leg                                | Diagnosis     | ICD-10-CM |
| S75.222A | Major laceration of greater saphenous vein at hip and thigh level, left leg, initial encounter             | Diagnosis     | ICD-10-CM |
| S75.222D | Major laceration of greater saphenous vein at hip and thigh level, left leg, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S75.222S | Major laceration of greater saphenous vein at hip and thigh level, left leg, sequela                       | Diagnosis     | ICD-10-CM |
| S75.229  | Major laceration of greater saphenous vein at hip and thigh level, unspecified leg                         | Diagnosis     | ICD-10-CM |
| S75.229A | Major laceration of greater saphenous vein at hip and thigh level, unspecified leg, initial encounter      | Diagnosis     | ICD-10-CM |
| S75.229D | Major laceration of greater saphenous vein at hip and thigh level, unspecified leg, subsequent encounter   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S75.229S | Major laceration of greater saphenous vein at hip and thigh level, unspecified leg, sequela                    | Diagnosis     | ICD-10-CM |
| S75.29   | Other specified injury of greater saphenous vein at hip and thigh level  | Diagnosis     | ICD-10-CM |
| S75.291  | Other specified injury of greater saphenous vein at hip and thigh level, right leg                             | Diagnosis     | ICD-10-CM |
| S75.291A | Other specified injury of greater saphenous vein at hip and thigh level, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S75.291D | Other specified injury of greater saphenous vein at hip and thigh level, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S75.291S | Other specified injury of greater saphenous vein at hip and thigh level, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S75.292  | Other specified injury of greater saphenous vein at hip and thigh level, left leg                              | Diagnosis     | ICD-10-CM |
| S75.292A | Other specified injury of greater saphenous vein at hip and thigh level, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S75.292D | Other specified injury of greater saphenous vein at hip and thigh level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S75.292S | Other specified injury of greater saphenous vein at hip and thigh level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S75.299  | Other specified injury of greater saphenous vein at hip and thigh level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S75.299A | Other specified injury of greater saphenous vein at hip and thigh level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S75.299D | Other specified injury of greater saphenous vein at hip and thigh level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S75.299S | Other specified injury of greater saphenous vein at hip and thigh level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S75.8    | Injury of other blood vessels at hip and thigh level   | Diagnosis     | ICD-10-CM |
| S75.80   | Unspecified injury of other blood vessels at hip and thigh level   | Diagnosis     | ICD-10-CM |
| S75.801  | Unspecified injury of other blood vessels at hip and thigh level, right leg                                    | Diagnosis     | ICD-10-CM |
| S75.801A | Unspecified injury of other blood vessels at hip and thigh level, right leg, initial encounter                 | Diagnosis     | ICD-10-CM |
| S75.801D | Unspecified injury of other blood vessels at hip and thigh level, right leg, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S75.801S | Unspecified injury of other blood vessels at hip and thigh level, right leg, sequela                           | Diagnosis     | ICD-10-CM |
| S75.802  | Unspecified injury of other blood vessels at hip and thigh level, left leg                                     | Diagnosis     | ICD-10-CM |
| S75.802A | Unspecified injury of other blood vessels at hip and thigh level, left leg, initial encounter                  | Diagnosis     | ICD-10-CM |
| S75.802D | Unspecified injury of other blood vessels at hip and thigh level, left leg, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S75.802S | Unspecified injury of other blood vessels at hip and thigh level, left leg, sequela                            | Diagnosis     | ICD-10-CM |
| S75.809  | Unspecified injury of other blood vessels at hip and thigh level, unspecified leg                              | Diagnosis     | ICD-10-CM |
| S75.809A | Unspecified injury of other blood vessels at hip and thigh level, unspecified leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S75.809D | Unspecified injury of other blood vessels at hip and thigh level, unspecified leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S75.809S | Unspecified injury of other blood vessels at hip and thigh level, unspecified leg, sequela                     | Diagnosis     | ICD-10-CM |
| S75.81   | Laceration of other blood vessels at hip and thigh level   | Diagnosis     | ICD-10-CM |
| S75.811  | Laceration of other blood vessels at hip and thigh level, right leg  | Diagnosis     | ICD-10-CM |
| S75.811A | Laceration of other blood vessels at hip and thigh level, right leg, initial encounter                         | Diagnosis     | ICD-10-CM |
| S75.811D | Laceration of other blood vessels at hip and thigh level, right leg, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S75.811S | Laceration of other blood vessels at hip and thigh level, right leg, sequela                                   | Diagnosis     | ICD-10-CM |
| S75.812  | Laceration of other blood vessels at hip and thigh level, left leg   | Diagnosis     | ICD-10-CM |
| S75.812A | Laceration of other blood vessels at hip and thigh level, left leg, initial encounter                          | Diagnosis     | ICD-10-CM |
| S75.812D | Laceration of other blood vessels at hip and thigh level, left leg, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S75.812S | Laceration of other blood vessels at hip and thigh level, left leg, sequela                                    | Diagnosis     | ICD-10-CM |
| S75.819  | Laceration of other blood vessels at hip and thigh level, unspecified leg                                      | Diagnosis     | ICD-10-CM |
| S75.819A | Laceration of other blood vessels at hip and thigh level, unspecified leg, initial encounter                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S75.819D | Laceration of other blood vessels at hip and thigh level, unspecified leg, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S75.819S | Laceration of other blood vessels at hip and thigh level, unspecified leg, sequela                           | Diagnosis     | ICD-10-CM |
| S75.89   | Other specified injury of other blood vessels at hip and thigh level   | Diagnosis     | ICD-10-CM |
| S75.891  | Other specified injury of other blood vessels at hip and thigh level, right leg                              | Diagnosis     | ICD-10-CM |
| S75.891A | Other specified injury of other blood vessels at hip and thigh level, right leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S75.891D | Other specified injury of other blood vessels at hip and thigh level, right leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S75.891S | Other specified injury of other blood vessels at hip and thigh level, right leg, sequela                     | Diagnosis     | ICD-10-CM |
| S75.892  | Other specified injury of other blood vessels at hip and thigh level, left leg                               | Diagnosis     | ICD-10-CM |
| S75.892A | Other specified injury of other blood vessels at hip and thigh level, left leg, initial encounter            | Diagnosis     | ICD-10-CM |
| S75.892D | Other specified injury of other blood vessels at hip and thigh level, left leg, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S75.892S | Other specified injury of other blood vessels at hip and thigh level, left leg, sequela                      | Diagnosis     | ICD-10-CM |
| S75.899  | Other specified injury of other blood vessels at hip and thigh level, unspecified leg                        | Diagnosis     | ICD-10-CM |
| S75.899A | Other specified injury of other blood vessels at hip and thigh level, unspecified leg, initial encounter     | Diagnosis     | ICD-10-CM |
| S75.899D | Other specified injury of other blood vessels at hip and thigh level, unspecified leg, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S75.899S | Other specified injury of other blood vessels at hip and thigh level, unspecified leg, sequela               | Diagnosis     | ICD-10-CM |
| S75.9    | Injury of unspecified blood vessel at hip and thigh level  | Diagnosis     | ICD-10-CM |
| S75.90   | Unspecified injury of unspecified blood vessel at hip and thigh level  | Diagnosis     | ICD-10-CM |
| S75.901  | Unspecified injury of unspecified blood vessel at hip and thigh level, right leg                             | Diagnosis     | ICD-10-CM |
| S75.901A | Unspecified injury of unspecified blood vessel at hip and thigh level, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S75.901D | Unspecified injury of unspecified blood vessel at hip and thigh level, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S75.901S | Unspecified injury of unspecified blood vessel at hip and thigh level, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S75.902  | Unspecified injury of unspecified blood vessel at hip and thigh level, left leg                              | Diagnosis     | ICD-10-CM |
| S75.902A | Unspecified injury of unspecified blood vessel at hip and thigh level, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S75.902D | Unspecified injury of unspecified blood vessel at hip and thigh level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S75.902S | Unspecified injury of unspecified blood vessel at hip and thigh level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S75.909  | Unspecified injury of unspecified blood vessel at hip and thigh level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S75.909A | Unspecified injury of unspecified blood vessel at hip and thigh level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S75.909D | Unspecified injury of unspecified blood vessel at hip and thigh level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S75.909S | Unspecified injury of unspecified blood vessel at hip and thigh level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S75.91   | Laceration of unspecified blood vessel at hip and thigh level  | Diagnosis     | ICD-10-CM |
| S75.911  | Laceration of unspecified blood vessel at hip and thigh level, right leg                                     | Diagnosis     | ICD-10-CM |
| S75.911A | Laceration of unspecified blood vessel at hip and thigh level, right leg, initial encounter                  | Diagnosis     | ICD-10-CM |
| S75.911D | Laceration of unspecified blood vessel at hip and thigh level, right leg, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S75.911S | Laceration of unspecified blood vessel at hip and thigh level, right leg, sequela                            | Diagnosis     | ICD-10-CM |
| S75.912  | Laceration of unspecified blood vessel at hip and thigh level, left leg                                      | Diagnosis     | ICD-10-CM |
| S75.912A | Laceration of unspecified blood vessel at hip and thigh level, left leg, initial encounter                   | Diagnosis     | ICD-10-CM |
| S75.912D | Laceration of unspecified blood vessel at hip and thigh level, left leg, subsequent encounter                | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S75.912S | Laceration of unspecified blood vessel at hip and thigh level, left leg, sequela                                 | Diagnosis     | ICD-10-CM |
| S75.919  | Laceration of unspecified blood vessel at hip and thigh level, unspecified leg                                   | Diagnosis     | ICD-10-CM |
| S75.919A | Laceration of unspecified blood vessel at hip and thigh level, unspecified leg, initial encounter                | Diagnosis     | ICD-10-CM |
| S75.919D | Laceration of unspecified blood vessel at hip and thigh level, unspecified leg, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S75.919S | Laceration of unspecified blood vessel at hip and thigh level, unspecified leg, sequela                          | Diagnosis     | ICD-10-CM |
| S75.99   | Other specified injury of unspecified blood vessel at hip and thigh level  | Diagnosis     | ICD-10-CM |
| S75.991  | Other specified injury of unspecified blood vessel at hip and thigh level, right leg                             | Diagnosis     | ICD-10-CM |
| S75.991A | Other specified injury of unspecified blood vessel at hip and thigh level, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S75.991D | Other specified injury of unspecified blood vessel at hip and thigh level, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S75.991S | Other specified injury of unspecified blood vessel at hip and thigh level, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S75.992  | Other specified injury of unspecified blood vessel at hip and thigh level, left leg                              | Diagnosis     | ICD-10-CM |
| S75.992A | Other specified injury of unspecified blood vessel at hip and thigh level, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S75.992D | Other specified injury of unspecified blood vessel at hip and thigh level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S75.992S | Other specified injury of unspecified blood vessel at hip and thigh level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S75.999  | Other specified injury of unspecified blood vessel at hip and thigh level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S75.999A | Other specified injury of unspecified blood vessel at hip and thigh level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S75.999D | Other specified injury of unspecified blood vessel at hip and thigh level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S75.999S | Other specified injury of unspecified blood vessel at hip and thigh level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S76      | Injury of muscle, fascia and tendon at hip and thigh level   | Diagnosis     | ICD-10-CM |
| S76.0    | Injury of muscle, fascia and tendon of hip   | Diagnosis     | ICD-10-CM |
| S76.00   | Unspecified injury of muscle, fascia and tendon of hip   | Diagnosis     | ICD-10-CM |
| S76.001  | Unspecified injury of muscle, fascia and tendon of right hip   | Diagnosis     | ICD-10-CM |
| S76.001A | Unspecified injury of muscle, fascia and tendon of right hip, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S76.001D | Unspecified injury of muscle, fascia and tendon of right hip, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S76.001S | Unspecified injury of muscle, fascia and tendon of right hip, sequela  | Diagnosis     | ICD-10-CM |
| S76.002  | Unspecified injury of muscle, fascia and tendon of left hip  | Diagnosis     | ICD-10-CM |
| S76.002A | Unspecified injury of muscle, fascia and tendon of left hip, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S76.002D | Unspecified injury of muscle, fascia and tendon of left hip, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S76.002S | Unspecified injury of muscle, fascia and tendon of left hip, sequela   | Diagnosis     | ICD-10-CM |
| S76.009  | Unspecified injury of muscle, fascia and tendon of unspecified hip   | Diagnosis     | ICD-10-CM |
| S76.009A | Unspecified injury of muscle, fascia and tendon of unspecified hip, initial encounter                            | Diagnosis     | ICD-10-CM |
| S76.009D | Unspecified injury of muscle, fascia and tendon of unspecified hip, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S76.009S | Unspecified injury of muscle, fascia and tendon of unspecified hip, sequela                                      | Diagnosis     | ICD-10-CM |
| S76.01   | Strain of muscle, fascia and tendon of hip   | Diagnosis     | ICD-10-CM |
| S76.011  | Strain of muscle, fascia and tendon of right hip   | Diagnosis     | ICD-10-CM |
| S76.011A | Strain of muscle, fascia and tendon of right hip, initial encounter  | Diagnosis     | ICD-10-CM |
| S76.011D | Strain of muscle, fascia and tendon of right hip, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S76.011S | Strain of muscle, fascia and tendon of right hip, sequela  | Diagnosis     | ICD-10-CM |
| S76.012  | Strain of muscle, fascia and tendon of left hip  | Diagnosis     | ICD-10-CM |
| S76.012A | Strain of muscle, fascia and tendon of left hip, initial encounter   | Diagnosis     | ICD-10-CM |
| S76.012D | Strain of muscle, fascia and tendon of left hip, subsequent encounter  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S76.012S | Strain of muscle, fascia and tendon of left hip, sequela                                     | Diagnosis     | ICD-10-CM |
| S76.019  | Strain of muscle, fascia and tendon of unspecified hip                                       | Diagnosis     | ICD-10-CM |
| S76.019A | Strain of muscle, fascia and tendon of unspecified hip, initial encounter                    | Diagnosis     | ICD-10-CM |
| S76.019D | Strain of muscle, fascia and tendon of unspecified hip, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S76.019S | Strain of muscle, fascia and tendon of unspecified hip, sequela                              | Diagnosis     | ICD-10-CM |
| S76.02   | Laceration of muscle, fascia and tendon of hip   | Diagnosis     | ICD-10-CM |
| S76.021  | Laceration of muscle, fascia and tendon of right hip   | Diagnosis     | ICD-10-CM |
| S76.021A | Laceration of muscle, fascia and tendon of right hip, initial encounter                      | Diagnosis     | ICD-10-CM |
| S76.021D | Laceration of muscle, fascia and tendon of right hip, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S76.021S | Laceration of muscle, fascia and tendon of right hip, sequela                                | Diagnosis     | ICD-10-CM |
| S76.022  | Laceration of muscle, fascia and tendon of left hip  | Diagnosis     | ICD-10-CM |
| S76.022A | Laceration of muscle, fascia and tendon of left hip, initial encounter                       | Diagnosis     | ICD-10-CM |
| S76.022D | Laceration of muscle, fascia and tendon of left hip, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S76.022S | Laceration of muscle, fascia and tendon of left hip, sequela                                 | Diagnosis     | ICD-10-CM |
| S76.029  | Laceration of muscle, fascia and tendon of unspecified hip                                   | Diagnosis     | ICD-10-CM |
| S76.029A | Laceration of muscle, fascia and tendon of unspecified hip, initial encounter                | Diagnosis     | ICD-10-CM |
| S76.029D | Laceration of muscle, fascia and tendon of unspecified hip, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S76.029S | Laceration of muscle, fascia and tendon of unspecified hip, sequela                          | Diagnosis     | ICD-10-CM |
| S76.09   | Other specified injury of muscle, fascia and tendon of hip                                   | Diagnosis     | ICD-10-CM |
| S76.091  | Other specified injury of muscle, fascia and tendon of right hip                             | Diagnosis     | ICD-10-CM |
| S76.091A | Other specified injury of muscle, fascia and tendon of right hip, initial encounter          | Diagnosis     | ICD-10-CM |
| S76.091D | Other specified injury of muscle, fascia and tendon of right hip, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S76.091S | Other specified injury of muscle, fascia and tendon of right hip, sequela                    | Diagnosis     | ICD-10-CM |
| S76.092  | Other specified injury of muscle, fascia and tendon of left hip                              | Diagnosis     | ICD-10-CM |
| S76.092A | Other specified injury of muscle, fascia and tendon of left hip, initial encounter           | Diagnosis     | ICD-10-CM |
| S76.092D | Other specified injury of muscle, fascia and tendon of left hip, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S76.092S | Other specified injury of muscle, fascia and tendon of left hip, sequela                     | Diagnosis     | ICD-10-CM |
| S76.099  | Other specified injury of muscle, fascia and tendon of unspecified hip                       | Diagnosis     | ICD-10-CM |
| S76.099A | Other specified injury of muscle, fascia and tendon of unspecified hip, initial encounter    | Diagnosis     | ICD-10-CM |
| S76.099D | Other specified injury of muscle, fascia and tendon of unspecified hip, subsequent encounter | Diagnosis     | ICD-10-CM |
| S76.099S | Other specified injury of muscle, fascia and tendon of unspecified hip, sequela              | Diagnosis     | ICD-10-CM |
| S76.1    | Injury of quadriceps muscle, fascia and tendon   | Diagnosis     | ICD-10-CM |
| S76.10   | Unspecified injury of quadriceps muscle, fascia and tendon                                   | Diagnosis     | ICD-10-CM |
| S76.101  | Unspecified injury of right quadriceps muscle, fascia and tendon                             | Diagnosis     | ICD-10-CM |
| S76.101A | Unspecified injury of right quadriceps muscle, fascia and tendon, initial encounter          | Diagnosis     | ICD-10-CM |
| S76.101D | Unspecified injury of right quadriceps muscle, fascia and tendon, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S76.101S | Unspecified injury of right quadriceps muscle, fascia and tendon, sequela                    | Diagnosis     | ICD-10-CM |
| S76.102  | Unspecified injury of left quadriceps muscle, fascia and tendon                              | Diagnosis     | ICD-10-CM |
| S76.102A | Unspecified injury of left quadriceps muscle, fascia and tendon, initial encounter           | Diagnosis     | ICD-10-CM |
| S76.102D | Unspecified injury of left quadriceps muscle, fascia and tendon, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S76.102S | Unspecified injury of left quadriceps muscle, fascia and tendon, sequela                     | Diagnosis     | ICD-10-CM |
| S76.109  | Unspecified injury of unspecified quadriceps muscle, fascia and tendon                       | Diagnosis     | ICD-10-CM |
| S76.109A | Unspecified injury of unspecified quadriceps muscle, fascia and tendon, initial encounter    | Diagnosis     | ICD-10-CM |
| S76.109D | Unspecified injury of unspecified quadriceps muscle, fascia and tendon, subsequent encounter | Diagnosis     | ICD-10-CM |
| S76.109S | Unspecified injury of unspecified quadriceps muscle, fascia and tendon, sequela              | Diagnosis     | ICD-10-CM |
| S76.11   | Strain of quadriceps muscle, fascia and tendon   | Diagnosis     | ICD-10-CM |
| S76.111  | Strain of right quadriceps muscle, fascia and tendon   | Diagnosis     | ICD-10-CM |
| S76.111A | Strain of right quadriceps muscle, fascia and tendon, initial encounter                      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S76.111D | Strain of right quadriceps muscle, fascia and tendon, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S76.111S | Strain of right quadriceps muscle, fascia and tendon, sequela                                    | Diagnosis     | ICD-10-CM |
| S76.112  | Strain of left quadriceps muscle, fascia and tendon  | Diagnosis     | ICD-10-CM |
| S76.112A | Strain of left quadriceps muscle, fascia and tendon, initial encounter                           | Diagnosis     | ICD-10-CM |
| S76.112D | Strain of left quadriceps muscle, fascia and tendon, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S76.112S | Strain of left quadriceps muscle, fascia and tendon, sequela                                     | Diagnosis     | ICD-10-CM |
| S76.119  | Strain of unspecified quadriceps muscle, fascia and tendon                                       | Diagnosis     | ICD-10-CM |
| S76.119A | Strain of unspecified quadriceps muscle, fascia and tendon, initial encounter                    | Diagnosis     | ICD-10-CM |
| S76.119D | Strain of unspecified quadriceps muscle, fascia and tendon, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S76.119S | Strain of unspecified quadriceps muscle, fascia and tendon, sequela                              | Diagnosis     | ICD-10-CM |
| S76.12   | Laceration of quadriceps muscle, fascia and tendon   | Diagnosis     | ICD-10-CM |
| S76.121  | Laceration of right quadriceps muscle, fascia and tendon   | Diagnosis     | ICD-10-CM |
| S76.121A | Laceration of right quadriceps muscle, fascia and tendon, initial encounter                      | Diagnosis     | ICD-10-CM |
| S76.121D | Laceration of right quadriceps muscle, fascia and tendon, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S76.121S | Laceration of right quadriceps muscle, fascia and tendon, sequela                                | Diagnosis     | ICD-10-CM |
| S76.122  | Laceration of left quadriceps muscle, fascia and tendon  | Diagnosis     | ICD-10-CM |
| S76.122A | Laceration of left quadriceps muscle, fascia and tendon, initial encounter                       | Diagnosis     | ICD-10-CM |
| S76.122D | Laceration of left quadriceps muscle, fascia and tendon, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S76.122S | Laceration of left quadriceps muscle, fascia and tendon, sequela                                 | Diagnosis     | ICD-10-CM |
| S76.129  | Laceration of unspecified quadriceps muscle, fascia and tendon                                   | Diagnosis     | ICD-10-CM |
| S76.129A | Laceration of unspecified quadriceps muscle, fascia and tendon, initial encounter                | Diagnosis     | ICD-10-CM |
| S76.129D | Laceration of unspecified quadriceps muscle, fascia and tendon, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S76.129S | Laceration of unspecified quadriceps muscle, fascia and tendon, sequela                          | Diagnosis     | ICD-10-CM |
| S76.19   | Other specified injury of quadriceps muscle, fascia and tendon                                   | Diagnosis     | ICD-10-CM |
| S76.191  | Other specified injury of right quadriceps muscle, fascia and tendon                             | Diagnosis     | ICD-10-CM |
| S76.191A | Other specified injury of right quadriceps muscle, fascia and tendon, initial encounter          | Diagnosis     | ICD-10-CM |
| S76.191D | Other specified injury of right quadriceps muscle, fascia and tendon, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S76.191S | Other specified injury of right quadriceps muscle, fascia and tendon, sequela                    | Diagnosis     | ICD-10-CM |
| S76.192  | Other specified injury of left quadriceps muscle, fascia and tendon                              | Diagnosis     | ICD-10-CM |
| S76.192A | Other specified injury of left quadriceps muscle, fascia and tendon, initial encounter           | Diagnosis     | ICD-10-CM |
| S76.192D | Other specified injury of left quadriceps muscle, fascia and tendon, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S76.192S | Other specified injury of left quadriceps muscle, fascia and tendon, sequela                     | Diagnosis     | ICD-10-CM |
| S76.199  | Other specified injury of unspecified quadriceps muscle, fascia and tendon                       | Diagnosis     | ICD-10-CM |
| S76.199A | Other specified injury of unspecified quadriceps muscle, fascia and tendon, initial encounter    | Diagnosis     | ICD-10-CM |
| S76.199D | Other specified injury of unspecified quadriceps muscle, fascia and tendon, subsequent encounter | Diagnosis     | ICD-10-CM |
| S76.199S | Other specified injury of unspecified quadriceps muscle, fascia and tendon, sequela              | Diagnosis     | ICD-10-CM |
| S76.2    | Injury of adductor muscle, fascia and tendon of thigh  | Diagnosis     | ICD-10-CM |
| S76.20   | Unspecified injury of adductor muscle, fascia and tendon of thigh                                | Diagnosis     | ICD-10-CM |
| S76.201  | Unspecified injury of adductor muscle, fascia and tendon of right thigh                          | Diagnosis     | ICD-10-CM |
| S76.201A | Unspecified injury of adductor muscle, fascia and tendon of right thigh, initial encounter       | Diagnosis     | ICD-10-CM |
| S76.201D | Unspecified injury of adductor muscle, fascia and tendon of right thigh, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S76.201S | Unspecified injury of adductor muscle, fascia and tendon of right thigh, sequela                 | Diagnosis     | ICD-10-CM |
| S76.202  | Unspecified injury of adductor muscle, fascia and tendon of left thigh                           | Diagnosis     | ICD-10-CM |
| S76.202A | Unspecified injury of adductor muscle, fascia and tendon of left thigh, initial encounter        | Diagnosis     | ICD-10-CM |
| S76.202D | Unspecified injury of adductor muscle, fascia and tendon of left thigh, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S76.202S | Unspecified injury of adductor muscle, fascia and tendon of left thigh, sequela                  | Diagnosis     | ICD-10-CM |
| S76.209  | Unspecified injury of adductor muscle, fascia and tendon of unspecified thigh                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S76.209A | Unspecified injury of adductor muscle, fascia and tendon of unspecified thigh, initial encounter          | Diagnosis     | ICD-10-CM |
| S76.209D | Unspecified injury of adductor muscle, fascia and tendon of unspecified thigh, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S76.209S | Unspecified injury of adductor muscle, fascia and tendon of unspecified thigh, sequela                    | Diagnosis     | ICD-10-CM |
| S76.21   | Strain of adductor muscle, fascia and tendon of thigh   | Diagnosis     | ICD-10-CM |
| S76.211  | Strain of adductor muscle, fascia and tendon of right thigh   | Diagnosis     | ICD-10-CM |
| S76.211A | Strain of adductor muscle, fascia and tendon of right thigh, initial encounter                            | Diagnosis     | ICD-10-CM |
| S76.211D | Strain of adductor muscle, fascia and tendon of right thigh, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S76.211S | Strain of adductor muscle, fascia and tendon of right thigh, sequela                                      | Diagnosis     | ICD-10-CM |
| S76.212  | Strain of adductor muscle, fascia and tendon of left thigh  | Diagnosis     | ICD-10-CM |
| S76.212A | Strain of adductor muscle, fascia and tendon of left thigh, initial encounter                             | Diagnosis     | ICD-10-CM |
| S76.212D | Strain of adductor muscle, fascia and tendon of left thigh, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S76.212S | Strain of adductor muscle, fascia and tendon of left thigh, sequela                                       | Diagnosis     | ICD-10-CM |
| S76.219  | Strain of adductor muscle, fascia and tendon of unspecified thigh   | Diagnosis     | ICD-10-CM |
| S76.219A | Strain of adductor muscle, fascia and tendon of unspecified thigh, initial encounter                      | Diagnosis     | ICD-10-CM |
| S76.219D | Strain of adductor muscle, fascia and tendon of unspecified thigh, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S76.219S | Strain of adductor muscle, fascia and tendon of unspecified thigh, sequela                                | Diagnosis     | ICD-10-CM |
| S76.22   | Laceration of adductor muscle, fascia and tendon of thigh   | Diagnosis     | ICD-10-CM |
| S76.221  | Laceration of adductor muscle, fascia and tendon of right thigh   | Diagnosis     | ICD-10-CM |
| S76.221A | Laceration of adductor muscle, fascia and tendon of right thigh, initial encounter                        | Diagnosis     | ICD-10-CM |
| S76.221D | Laceration of adductor muscle, fascia and tendon of right thigh, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S76.221S | Laceration of adductor muscle, fascia and tendon of right thigh, sequela                                  | Diagnosis     | ICD-10-CM |
| S76.222  | Laceration of adductor muscle, fascia and tendon of left thigh  | Diagnosis     | ICD-10-CM |
| S76.222A | Laceration of adductor muscle, fascia and tendon of left thigh, initial encounter                         | Diagnosis     | ICD-10-CM |
| S76.222D | Laceration of adductor muscle, fascia and tendon of left thigh, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S76.222S | Laceration of adductor muscle, fascia and tendon of left thigh, sequela                                   | Diagnosis     | ICD-10-CM |
| S76.229  | Laceration of adductor muscle, fascia and tendon of unspecified thigh                                     | Diagnosis     | ICD-10-CM |
| S76.229A | Laceration of adductor muscle, fascia and tendon of unspecified thigh, initial encounter                  | Diagnosis     | ICD-10-CM |
| S76.229D | Laceration of adductor muscle, fascia and tendon of unspecified thigh, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S76.229S | Laceration of adductor muscle, fascia and tendon of unspecified thigh, sequela                            | Diagnosis     | ICD-10-CM |
| S76.29   | Other injury of adductor muscle, fascia and tendon of thigh   | Diagnosis     | ICD-10-CM |
| S76.291  | Other injury of adductor muscle, fascia and tendon of right thigh   | Diagnosis     | ICD-10-CM |
| S76.291A | Other injury of adductor muscle, fascia and tendon of right thigh, initial encounter                      | Diagnosis     | ICD-10-CM |
| S76.291D | Other injury of adductor muscle, fascia and tendon of right thigh, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S76.291S | Other injury of adductor muscle, fascia and tendon of right thigh, sequela                                | Diagnosis     | ICD-10-CM |
| S76.292  | Other injury of adductor muscle, fascia and tendon of left thigh  | Diagnosis     | ICD-10-CM |
| S76.292A | Other injury of adductor muscle, fascia and tendon of left thigh, initial encounter                       | Diagnosis     | ICD-10-CM |
| S76.292D | Other injury of adductor muscle, fascia and tendon of left thigh, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S76.292S | Other injury of adductor muscle, fascia and tendon of left thigh, sequela                                 | Diagnosis     | ICD-10-CM |
| S76.299  | Other injury of adductor muscle, fascia and tendon of unspecified thigh                                   | Diagnosis     | ICD-10-CM |
| S76.299A | Other injury of adductor muscle, fascia and tendon of unspecified thigh, initial encounter                | Diagnosis     | ICD-10-CM |
| S76.299D | Other injury of adductor muscle, fascia and tendon of unspecified thigh, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S76.299S | Other injury of adductor muscle, fascia and tendon of unspecified thigh, sequela                          | Diagnosis     | ICD-10-CM |
| S76.3    | Injury of muscle, fascia and tendon of the posterior muscle group at thigh level                          | Diagnosis     | ICD-10-CM |
| S76.30   | Unspecified injury of muscle, fascia and tendon of the posterior muscle group at thigh level              | Diagnosis     | ICD-10-CM |
| S76.301  | Unspecified injury of muscle, fascia and tendon of the posterior muscle group at thigh level, right thigh | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S76.301A | Unspecified injury of muscle, fascia and tendon of the posterior muscle group at thigh level, right thigh, initial encounter          | Diagnosis     | ICD-10-CM |
| S76.301D | Unspecified injury of muscle, fascia and tendon of the posterior muscle group at thigh level, right thigh, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S76.301S | Unspecified injury of muscle, fascia and tendon of the posterior muscle group at thigh level, right thigh, sequela                    | Diagnosis     | ICD-10-CM |
| S76.302  | Unspecified injury of muscle, fascia and tendon of the posterior muscle group at thigh level, left thigh                              | Diagnosis     | ICD-10-CM |
| S76.302A | Unspecified injury of muscle, fascia and tendon of the posterior muscle group at thigh level, left thigh, initial encounter           | Diagnosis     | ICD-10-CM |
| S76.302D | Unspecified injury of muscle, fascia and tendon of the posterior muscle group at thigh level, left thigh, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S76.302S | Unspecified injury of muscle, fascia and tendon of the posterior muscle group at thigh level, left thigh, sequela                     | Diagnosis     | ICD-10-CM |
| S76.309  | Unspecified injury of muscle, fascia and tendon of the posterior muscle group at thigh level, unspecified thigh                       | Diagnosis     | ICD-10-CM |
| S76.309A | Unspecified injury of muscle, fascia and tendon of the posterior muscle group at thigh level, unspecified thigh, initial encounter    | Diagnosis     | ICD-10-CM |
| S76.309D | Unspecified injury of muscle, fascia and tendon of the posterior muscle group at thigh level, unspecified thigh, subsequent encounter | Diagnosis     | ICD-10-CM |
| S76.309S | Unspecified injury of muscle, fascia and tendon of the posterior muscle group at thigh level, unspecified thigh, sequela              | Diagnosis     | ICD-10-CM |
| S76.31   | Strain of muscle, fascia and tendon of the posterior muscle group at thigh level  | Diagnosis     | ICD-10-CM |
| S76.311  | Strain of muscle, fascia and tendon of the posterior muscle group at thigh level, right thigh   | Diagnosis     | ICD-10-CM |
| S76.311A | Strain of muscle, fascia and tendon of the posterior muscle group at thigh level, right thigh, initial encounter                      | Diagnosis     | ICD-10-CM |
| S76.311D | Strain of muscle, fascia and tendon of the posterior muscle group at thigh level, right thigh, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S76.311S | Strain of muscle, fascia and tendon of the posterior muscle group at thigh level, right thigh, sequela                                | Diagnosis     | ICD-10-CM |
| S76.312  | Strain of muscle, fascia and tendon of the posterior muscle group at thigh level, left thigh  | Diagnosis     | ICD-10-CM |
| S76.312A | Strain of muscle, fascia and tendon of the posterior muscle group at thigh level, left thigh, initial encounter                       | Diagnosis     | ICD-10-CM |
| S76.312D | Strain of muscle, fascia and tendon of the posterior muscle group at thigh level, left thigh, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S76.312S | Strain of muscle, fascia and tendon of the posterior muscle group at thigh level, left thigh, sequela                                 | Diagnosis     | ICD-10-CM |
| S76.319  | Strain of muscle, fascia and tendon of the posterior muscle group at thigh level, unspecified thigh                                   | Diagnosis     | ICD-10-CM |
| S76.319A | Strain of muscle, fascia and tendon of the posterior muscle group at thigh level, unspecified thigh, initial encounter                | Diagnosis     | ICD-10-CM |
| S76.319D | Strain of muscle, fascia and tendon of the posterior muscle group at thigh level, unspecified thigh, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S76.319S | Strain of muscle, fascia and tendon of the posterior muscle group at thigh level, unspecified thigh, sequela                          | Diagnosis     | ICD-10-CM |
| S76.32   | Laceration of muscle, fascia and tendon of the posterior muscle group at thigh level  | Diagnosis     | ICD-10-CM |
| S76.321  | Laceration of muscle, fascia and tendon of the posterior muscle group at thigh level, right thigh                                     | Diagnosis     | ICD-10-CM |
| S76.321A | Laceration of muscle, fascia and tendon of the posterior muscle group at thigh level, right thigh, initial encounter                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S76.321D | Laceration of muscle, fascia and tendon of the posterior muscle group at thigh level, right thigh, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S76.321S | Laceration of muscle, fascia and tendon of the posterior muscle group at thigh level, right thigh, sequela                                | Diagnosis     | ICD-10-CM |
| S76.322  | Laceration of muscle, fascia and tendon of the posterior muscle group at thigh level, left thigh  | Diagnosis     | ICD-10-CM |
| S76.322A | Laceration of muscle, fascia and tendon of the posterior muscle group at thigh level, left thigh, initial encounter                       | Diagnosis     | ICD-10-CM |
| S76.322D | Laceration of muscle, fascia and tendon of the posterior muscle group at thigh level, left thigh, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S76.322S | Laceration of muscle, fascia and tendon of the posterior muscle group at thigh level, left thigh, sequela                                 | Diagnosis     | ICD-10-CM |
| S76.329  | Laceration of muscle, fascia and tendon of the posterior muscle group at thigh level, unspecified thigh                                   | Diagnosis     | ICD-10-CM |
| S76.329A | Laceration of muscle, fascia and tendon of the posterior muscle group at thigh level, unspecified thigh, initial encounter                | Diagnosis     | ICD-10-CM |
| S76.329D | Laceration of muscle, fascia and tendon of the posterior muscle group at thigh level, unspecified thigh, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S76.329S | Laceration of muscle, fascia and tendon of the posterior muscle group at thigh level, unspecified thigh, sequela                          | Diagnosis     | ICD-10-CM |
| S76.39   | Other specified injury of muscle, fascia and tendon of the posterior muscle group at thigh level  | Diagnosis     | ICD-10-CM |
| S76.391  | Other specified injury of muscle, fascia and tendon of the posterior muscle group at thigh level, right thigh                             | Diagnosis     | ICD-10-CM |
| S76.391A | Other specified injury of muscle, fascia and tendon of the posterior muscle group at thigh level, right thigh, initial encounter          | Diagnosis     | ICD-10-CM |
| S76.391D | Other specified injury of muscle, fascia and tendon of the posterior muscle group at thigh level, right thigh, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S76.391S | Other specified injury of muscle, fascia and tendon of the posterior muscle group at thigh level, right thigh, sequela                    | Diagnosis     | ICD-10-CM |
| S76.392  | Other specified injury of muscle, fascia and tendon of the posterior muscle group at thigh level, left thigh                              | Diagnosis     | ICD-10-CM |
| S76.392A | Other specified injury of muscle, fascia and tendon of the posterior muscle group at thigh level, left thigh, initial encounter           | Diagnosis     | ICD-10-CM |
| S76.392D | Other specified injury of muscle, fascia and tendon of the posterior muscle group at thigh level, left thigh, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S76.392S | Other specified injury of muscle, fascia and tendon of the posterior muscle group at thigh level, left thigh, sequela                     | Diagnosis     | ICD-10-CM |
| S76.399  | Other specified injury of muscle, fascia and tendon of the posterior muscle group at thigh level, unspecified thigh                       | Diagnosis     | ICD-10-CM |
| S76.399A | Other specified injury of muscle, fascia and tendon of the posterior muscle group at thigh level, unspecified thigh, initial encounter    | Diagnosis     | ICD-10-CM |
| S76.399D | Other specified injury of muscle, fascia and tendon of the posterior muscle group at thigh level, unspecified thigh, subsequent encounter | Diagnosis     | ICD-10-CM |
| S76.399S | Other specified injury of muscle, fascia and tendon of the posterior muscle group at thigh level, unspecified thigh, sequela              | Diagnosis     | ICD-10-CM |
| S76.8    | Injury of other specified muscles, fascia and tendons at thigh level  | Diagnosis     | ICD-10-CM |
| S76.80   | Unspecified injury of other specified muscles, fascia and tendons at thigh level  | Diagnosis     | ICD-10-CM |
| S76.801  | Unspecified injury of other specified muscles, fascia and tendons at thigh level, right thigh   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S76.801A | Unspecified injury of other specified muscles, fascia and tendons at thigh level, right thigh, initial encounter          | Diagnosis     | ICD-10-CM |
| S76.801D | Unspecified injury of other specified muscles, fascia and tendons at thigh level, right thigh, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S76.801S | Unspecified injury of other specified muscles, fascia and tendons at thigh level, right thigh, sequela                    | Diagnosis     | ICD-10-CM |
| S76.802  | Unspecified injury of other specified muscles, fascia and tendons at thigh level, left thigh                              | Diagnosis     | ICD-10-CM |
| S76.802A | Unspecified injury of other specified muscles, fascia and tendons at thigh level, left thigh, initial encounter           | Diagnosis     | ICD-10-CM |
| S76.802D | Unspecified injury of other specified muscles, fascia and tendons at thigh level, left thigh, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S76.802S | Unspecified injury of other specified muscles, fascia and tendons at thigh level, left thigh, sequela                     | Diagnosis     | ICD-10-CM |
| S76.809  | Unspecified injury of other specified muscles, fascia and tendons at thigh level, unspecified thigh                       | Diagnosis     | ICD-10-CM |
| S76.809A | Unspecified injury of other specified muscles, fascia and tendons at thigh level, unspecified thigh, initial encounter    | Diagnosis     | ICD-10-CM |
| S76.809D | Unspecified injury of other specified muscles, fascia and tendons at thigh level, unspecified thigh, subsequent encounter | Diagnosis     | ICD-10-CM |
| S76.809S | Unspecified injury of other specified muscles, fascia and tendons at thigh level, unspecified thigh, sequela              | Diagnosis     | ICD-10-CM |
| S76.81   | Strain of other specified muscles, fascia and tendons at thigh level  | Diagnosis     | ICD-10-CM |
| S76.811  | Strain of other specified muscles, fascia and tendons at thigh level, right thigh   | Diagnosis     | ICD-10-CM |
| S76.811A | Strain of other specified muscles, fascia and tendons at thigh level, right thigh, initial encounter                      | Diagnosis     | ICD-10-CM |
| S76.811D | Strain of other specified muscles, fascia and tendons at thigh level, right thigh, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S76.811S | Strain of other specified muscles, fascia and tendons at thigh level, right thigh, sequela                                | Diagnosis     | ICD-10-CM |
| S76.812  | Strain of other specified muscles, fascia and tendons at thigh level, left thigh  | Diagnosis     | ICD-10-CM |
| S76.812A | Strain of other specified muscles, fascia and tendons at thigh level, left thigh, initial encounter                       | Diagnosis     | ICD-10-CM |
| S76.812D | Strain of other specified muscles, fascia and tendons at thigh level, left thigh, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S76.812S | Strain of other specified muscles, fascia and tendons at thigh level, left thigh, sequela                                 | Diagnosis     | ICD-10-CM |
| S76.819  | Strain of other specified muscles, fascia and tendons at thigh level, unspecified thigh                                   | Diagnosis     | ICD-10-CM |
| S76.819A | Strain of other specified muscles, fascia and tendons at thigh level, unspecified thigh, initial encounter                | Diagnosis     | ICD-10-CM |
| S76.819D | Strain of other specified muscles, fascia and tendons at thigh level, unspecified thigh, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S76.819S | Strain of other specified muscles, fascia and tendons at thigh level, unspecified thigh, sequela                          | Diagnosis     | ICD-10-CM |
| S76.82   | Laceration of other specified muscles, fascia and tendons at thigh level  | Diagnosis     | ICD-10-CM |
| S76.821  | Laceration of other specified muscles, fascia and tendons at thigh level, right thigh                                     | Diagnosis     | ICD-10-CM |
| S76.821A | Laceration of other specified muscles, fascia and tendons at thigh level, right thigh, initial encounter                  | Diagnosis     | ICD-10-CM |
| S76.821D | Laceration of other specified muscles, fascia and tendons at thigh level, right thigh, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S76.821S | Laceration of other specified muscles, fascia and tendons at thigh level, right thigh, sequela                            | Diagnosis     | ICD-10-CM |
| S76.822  | Laceration of other specified muscles, fascia and tendons at thigh level, left thigh                                      | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S76.822A | Laceration of other specified muscles, fascia and tendons at thigh level, left thigh, initial encounter             | Diagnosis     | ICD-10-CM |
| S76.822D | Laceration of other specified muscles, fascia and tendons at thigh level, left thigh, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S76.822S | Laceration of other specified muscles, fascia and tendons at thigh level, left thigh, sequela                       | Diagnosis     | ICD-10-CM |
| S76.829  | Laceration of other specified muscles, fascia and tendons at thigh level, unspecified thigh                         | Diagnosis     | ICD-10-CM |
| S76.829A | Laceration of other specified muscles, fascia and tendons at thigh level, unspecified thigh, initial encounter      | Diagnosis     | ICD-10-CM |
| S76.829D | Laceration of other specified muscles, fascia and tendons at thigh level, unspecified thigh, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S76.829S | Laceration of other specified muscles, fascia and tendons at thigh level, unspecified thigh, sequela                | Diagnosis     | ICD-10-CM |
| S76.89   | Other injury of other specified muscles, fascia and tendons at thigh level  | Diagnosis     | ICD-10-CM |
| S76.891  | Other injury of other specified muscles, fascia and tendons at thigh level, right thigh                             | Diagnosis     | ICD-10-CM |
| S76.891A | Other injury of other specified muscles, fascia and tendons at thigh level, right thigh, initial encounter          | Diagnosis     | ICD-10-CM |
| S76.891D | Other injury of other specified muscles, fascia and tendons at thigh level, right thigh, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S76.891S | Other injury of other specified muscles, fascia and tendons at thigh level, right thigh, sequela                    | Diagnosis     | ICD-10-CM |
| S76.892  | Other injury of other specified muscles, fascia and tendons at thigh level, left thigh                              | Diagnosis     | ICD-10-CM |
| S76.892A | Other injury of other specified muscles, fascia and tendons at thigh level, left thigh, initial encounter           | Diagnosis     | ICD-10-CM |
| S76.892D | Other injury of other specified muscles, fascia and tendons at thigh level, left thigh, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S76.892S | Other injury of other specified muscles, fascia and tendons at thigh level, left thigh, sequela                     | Diagnosis     | ICD-10-CM |
| S76.899  | Other injury of other specified muscles, fascia and tendons at thigh level, unspecified thigh                       | Diagnosis     | ICD-10-CM |
| S76.899A | Other injury of other specified muscles, fascia and tendons at thigh level, unspecified thigh, initial encounter    | Diagnosis     | ICD-10-CM |
| S76.899D | Other injury of other specified muscles, fascia and tendons at thigh level, unspecified thigh, subsequent encounter | Diagnosis     | ICD-10-CM |
| S76.899S | Other injury of other specified muscles, fascia and tendons at thigh level, unspecified thigh, sequela              | Diagnosis     | ICD-10-CM |
| S76.9    | Injury of unspecified muscles, fascia and tendons at thigh level  | Diagnosis     | ICD-10-CM |
| S76.90   | Unspecified injury of unspecified muscles, fascia and tendons at thigh level  | Diagnosis     | ICD-10-CM |
| S76.901  | Unspecified injury of unspecified muscles, fascia and tendons at thigh level, right thigh                           | Diagnosis     | ICD-10-CM |
| S76.901A | Unspecified injury of unspecified muscles, fascia and tendons at thigh level, right thigh, initial encounter        | Diagnosis     | ICD-10-CM |
| S76.901D | Unspecified injury of unspecified muscles, fascia and tendons at thigh level, right thigh, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S76.901S | Unspecified injury of unspecified muscles, fascia and tendons at thigh level, right thigh, sequela                  | Diagnosis     | ICD-10-CM |
| S76.902  | Unspecified injury of unspecified muscles, fascia and tendons at thigh level, left thigh                            | Diagnosis     | ICD-10-CM |
| S76.902A | Unspecified injury of unspecified muscles, fascia and tendons at thigh level, left thigh, initial encounter         | Diagnosis     | ICD-10-CM |
| S76.902D | Unspecified injury of unspecified muscles, fascia and tendons at thigh level, left thigh, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S76.902S | Unspecified injury of unspecified muscles, fascia and tendons at thigh level, left thigh, sequela                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S76.909  | Unspecified injury of unspecified muscles, fascia and tendons at thigh level, unspecified thigh                       | Diagnosis     | ICD-10-CM |
| S76.909A | Unspecified injury of unspecified muscles, fascia and tendons at thigh level, unspecified thigh, initial encounter    | Diagnosis     | ICD-10-CM |
| S76.909D | Unspecified injury of unspecified muscles, fascia and tendons at thigh level, unspecified thigh, subsequent encounter | Diagnosis     | ICD-10-CM |
| S76.909S | Unspecified injury of unspecified muscles, fascia and tendons at thigh level, unspecified thigh, sequela              | Diagnosis     | ICD-10-CM |
| S76.91   | Strain of unspecified muscles, fascia and tendons at thigh level  | Diagnosis     | ICD-10-CM |
| S76.911  | Strain of unspecified muscles, fascia and tendons at thigh level, right thigh   | Diagnosis     | ICD-10-CM |
| S76.911A | Strain of unspecified muscles, fascia and tendons at thigh level, right thigh, initial encounter                      | Diagnosis     | ICD-10-CM |
| S76.911D | Strain of unspecified muscles, fascia and tendons at thigh level, right thigh, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S76.911S | Strain of unspecified muscles, fascia and tendons at thigh level, right thigh, sequela                                | Diagnosis     | ICD-10-CM |
| S76.912  | Strain of unspecified muscles, fascia and tendons at thigh level, left thigh  | Diagnosis     | ICD-10-CM |
| S76.912A | Strain of unspecified muscles, fascia and tendons at thigh level, left thigh, initial encounter                       | Diagnosis     | ICD-10-CM |
| S76.912D | Strain of unspecified muscles, fascia and tendons at thigh level, left thigh, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S76.912S | Strain of unspecified muscles, fascia and tendons at thigh level, left thigh, sequela                                 | Diagnosis     | ICD-10-CM |
| S76.919  | Strain of unspecified muscles, fascia and tendons at thigh level, unspecified thigh                                   | Diagnosis     | ICD-10-CM |
| S76.919A | Strain of unspecified muscles, fascia and tendons at thigh level, unspecified thigh, initial encounter                | Diagnosis     | ICD-10-CM |
| S76.919D | Strain of unspecified muscles, fascia and tendons at thigh level, unspecified thigh, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S76.919S | Strain of unspecified muscles, fascia and tendons at thigh level, unspecified thigh, sequela                          | Diagnosis     | ICD-10-CM |
| S76.92   | Laceration of unspecified muscles, fascia and tendons at thigh level  | Diagnosis     | ICD-10-CM |
| S76.921  | Laceration of unspecified muscles, fascia and tendons at thigh level, right thigh                                     | Diagnosis     | ICD-10-CM |
| S76.921A | Laceration of unspecified muscles, fascia and tendons at thigh level, right thigh, initial encounter                  | Diagnosis     | ICD-10-CM |
| S76.921D | Laceration of unspecified muscles, fascia and tendons at thigh level, right thigh, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S76.921S | Laceration of unspecified muscles, fascia and tendons at thigh level, right thigh, sequela                            | Diagnosis     | ICD-10-CM |
| S76.922  | Laceration of unspecified muscles, fascia and tendons at thigh level, left thigh                                      | Diagnosis     | ICD-10-CM |
| S76.922A | Laceration of unspecified muscles, fascia and tendons at thigh level, left thigh, initial encounter                   | Diagnosis     | ICD-10-CM |
| S76.922D | Laceration of unspecified muscles, fascia and tendons at thigh level, left thigh, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S76.922S | Laceration of unspecified muscles, fascia and tendons at thigh level, left thigh, sequela                             | Diagnosis     | ICD-10-CM |
| S76.929  | Laceration of unspecified muscles, fascia and tendons at thigh level, unspecified thigh                               | Diagnosis     | ICD-10-CM |
| S76.929A | Laceration of unspecified muscles, fascia and tendons at thigh level, unspecified thigh, initial encounter            | Diagnosis     | ICD-10-CM |
| S76.929D | Laceration of unspecified muscles, fascia and tendons at thigh level, unspecified thigh, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S76.929S | Laceration of unspecified muscles, fascia and tendons at thigh level, unspecified thigh, sequela                      | Diagnosis     | ICD-10-CM |
| S76.99   | Other specified injury of unspecified muscles, fascia and tendons at thigh level                                      | Diagnosis     | ICD-10-CM |
| S76.991  | Other specified injury of unspecified muscles, fascia and tendons at thigh level, right thigh                         | Diagnosis     | ICD-10-CM |
| S76.991A | Other specified injury of unspecified muscles, fascia and tendons at thigh level, right thigh, initial encounter      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S76.991D | Other specified injury of unspecified muscles, fascia and tendons at thigh level, right thigh, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S76.991S | Other specified injury of unspecified muscles, fascia and tendons at thigh level, right thigh, sequela                    | Diagnosis     | ICD-10-CM |
| S76.992  | Other specified injury of unspecified muscles, fascia and tendons at thigh level, left thigh                              | Diagnosis     | ICD-10-CM |
| S76.992A | Other specified injury of unspecified muscles, fascia and tendons at thigh level, left thigh, initial encounter           | Diagnosis     | ICD-10-CM |
| S76.992D | Other specified injury of unspecified muscles, fascia and tendons at thigh level, left thigh, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S76.992S | Other specified injury of unspecified muscles, fascia and tendons at thigh level, left thigh, sequela                     | Diagnosis     | ICD-10-CM |
| S76.999  | Other specified injury of unspecified muscles, fascia and tendons at thigh level, unspecified thigh                       | Diagnosis     | ICD-10-CM |
| S76.999A | Other specified injury of unspecified muscles, fascia and tendons at thigh level, unspecified thigh, initial encounter    | Diagnosis     | ICD-10-CM |
| S76.999D | Other specified injury of unspecified muscles, fascia and tendons at thigh level, unspecified thigh, subsequent encounter | Diagnosis     | ICD-10-CM |
| S76.999S | Other specified injury of unspecified muscles, fascia and tendons at thigh level, unspecified thigh, sequela              | Diagnosis     | ICD-10-CM |
| S77      | Crushing injury of hip and thigh  | Diagnosis     | ICD-10-CM |
| S77.0    | Crushing injury of hip  | Diagnosis     | ICD-10-CM |
| S77.00   | Crushing injury of unspecified hip  | Diagnosis     | ICD-10-CM |
| S77.00XA | Crushing injury of unspecified hip, initial encounter   | Diagnosis     | ICD-10-CM |
| S77.00XD | Crushing injury of unspecified hip, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S77.00XS | Crushing injury of unspecified hip, sequela   | Diagnosis     | ICD-10-CM |
| S77.01   | Crushing injury of right hip  | Diagnosis     | ICD-10-CM |
| S77.01XA | Crushing injury of right hip, initial encounter   | Diagnosis     | ICD-10-CM |
| S77.01XD | Crushing injury of right hip, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S77.01XS | Crushing injury of right hip, sequela   | Diagnosis     | ICD-10-CM |
| S77.02   | Crushing injury of left hip   | Diagnosis     | ICD-10-CM |
| S77.02XA | Crushing injury of left hip, initial encounter  | Diagnosis     | ICD-10-CM |
| S77.02XD | Crushing injury of left hip, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S77.02XS | Crushing injury of left hip, sequela  | Diagnosis     | ICD-10-CM |
| S77.1    | Crushing injury of thigh  | Diagnosis     | ICD-10-CM |
| S77.10   | Crushing injury of unspecified thigh  | Diagnosis     | ICD-10-CM |
| S77.10XA | Crushing injury of unspecified thigh, initial encounter   | Diagnosis     | ICD-10-CM |
| S77.10XD | Crushing injury of unspecified thigh, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S77.10XS | Crushing injury of unspecified thigh, sequela   | Diagnosis     | ICD-10-CM |
| S77.11   | Crushing injury of right thigh  | Diagnosis     | ICD-10-CM |
| S77.11XA | Crushing injury of right thigh, initial encounter   | Diagnosis     | ICD-10-CM |
| S77.11XD | Crushing injury of right thigh, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S77.11XS | Crushing injury of right thigh, sequela   | Diagnosis     | ICD-10-CM |
| S77.12   | Crushing injury of left thigh   | Diagnosis     | ICD-10-CM |
| S77.12XA | Crushing injury of left thigh, initial encounter  | Diagnosis     | ICD-10-CM |
| S77.12XD | Crushing injury of left thigh, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S77.12XS | Crushing injury of left thigh, sequela  | Diagnosis     | ICD-10-CM |
| S77.2    | Crushing injury of hip with thigh   | Diagnosis     | ICD-10-CM |
| S77.20   | Crushing injury of unspecified hip with thigh   | Diagnosis     | ICD-10-CM |
| S77.20XA | Crushing injury of unspecified hip with thigh, initial encounter  | Diagnosis     | ICD-10-CM |
| S77.20XD | Crushing injury of unspecified hip with thigh, subsequent encounter   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S77.20XS | Crushing injury of unspecified hip with thigh, sequela                                     | Diagnosis     | ICD-10-CM |
| S77.21   | Crushing injury of right hip with thigh  | Diagnosis     | ICD-10-CM |
| S77.21XA | Crushing injury of right hip with thigh, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S77.21XD | Crushing injury of right hip with thigh, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S77.21XS | Crushing injury of right hip with thigh, sequela   | Diagnosis     | ICD-10-CM |
| S77.22   | Crushing injury of left hip with thigh   | Diagnosis     | ICD-10-CM |
| S77.22XA | Crushing injury of left hip with thigh, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S77.22XD | Crushing injury of left hip with thigh, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S77.22XS | Crushing injury of left hip with thigh, sequela  | Diagnosis     | ICD-10-CM |
| S78      | Traumatic amputation of hip and thigh  | Diagnosis     | ICD-10-CM |
| S78.0    | Traumatic amputation at hip joint  | Diagnosis     | ICD-10-CM |
| S78.01   | Complete traumatic amputation at hip joint   | Diagnosis     | ICD-10-CM |
| S78.011  | Complete traumatic amputation at right hip joint   | Diagnosis     | ICD-10-CM |
| S78.011A | Complete traumatic amputation at right hip joint, initial encounter                        | Diagnosis     | ICD-10-CM |
| S78.011D | Complete traumatic amputation at right hip joint, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S78.011S | Complete traumatic amputation at right hip joint, sequela                                  | Diagnosis     | ICD-10-CM |
| S78.012  | Complete traumatic amputation at left hip joint  | Diagnosis     | ICD-10-CM |
| S78.012A | Complete traumatic amputation at left hip joint, initial encounter                         | Diagnosis     | ICD-10-CM |
| S78.012D | Complete traumatic amputation at left hip joint, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S78.012S | Complete traumatic amputation at left hip joint, sequela                                   | Diagnosis     | ICD-10-CM |
| S78.019  | Complete traumatic amputation at unspecified hip joint                                     | Diagnosis     | ICD-10-CM |
| S78.019A | Complete traumatic amputation at unspecified hip joint, initial encounter                  | Diagnosis     | ICD-10-CM |
| S78.019D | Complete traumatic amputation at unspecified hip joint, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S78.019S | Complete traumatic amputation at unspecified hip joint, sequela                            | Diagnosis     | ICD-10-CM |
| S78.02   | Partial traumatic amputation at hip joint  | Diagnosis     | ICD-10-CM |
| S78.021  | Partial traumatic amputation at right hip joint  | Diagnosis     | ICD-10-CM |
| S78.021A | Partial traumatic amputation at right hip joint, initial encounter                         | Diagnosis     | ICD-10-CM |
| S78.021D | Partial traumatic amputation at right hip joint, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S78.021S | Partial traumatic amputation at right hip joint, sequela                                   | Diagnosis     | ICD-10-CM |
| S78.022  | Partial traumatic amputation at left hip joint   | Diagnosis     | ICD-10-CM |
| S78.022A | Partial traumatic amputation at left hip joint, initial encounter                          | Diagnosis     | ICD-10-CM |
| S78.022D | Partial traumatic amputation at left hip joint, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S78.022S | Partial traumatic amputation at left hip joint, sequela                                    | Diagnosis     | ICD-10-CM |
| S78.029  | Partial traumatic amputation at unspecified hip joint                                      | Diagnosis     | ICD-10-CM |
| S78.029A | Partial traumatic amputation at unspecified hip joint, initial encounter                   | Diagnosis     | ICD-10-CM |
| S78.029D | Partial traumatic amputation at unspecified hip joint, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S78.029S | Partial traumatic amputation at unspecified hip joint, sequela                             | Diagnosis     | ICD-10-CM |
| S78.1    | Traumatic amputation at level between hip and knee   | Diagnosis     | ICD-10-CM |
| S78.11   | Complete traumatic amputation at level between hip and knee                                | Diagnosis     | ICD-10-CM |
| S78.111  | Complete traumatic amputation at level between right hip and knee                          | Diagnosis     | ICD-10-CM |
| S78.111A | Complete traumatic amputation at level between right hip and knee, initial encounter       | Diagnosis     | ICD-10-CM |
| S78.111D | Complete traumatic amputation at level between right hip and knee, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S78.111S | Complete traumatic amputation at level between right hip and knee, sequela                 | Diagnosis     | ICD-10-CM |
| S78.112  | Complete traumatic amputation at level between left hip and knee                           | Diagnosis     | ICD-10-CM |
| S78.112A | Complete traumatic amputation at level between left hip and knee, initial encounter        | Diagnosis     | ICD-10-CM |
| S78.112D | Complete traumatic amputation at level between left hip and knee, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S78.112S | Complete traumatic amputation at level between left hip and knee, sequela                  | Diagnosis     | ICD-10-CM |
| S78.119  | Complete traumatic amputation at level between unspecified hip and knee                    | Diagnosis     | ICD-10-CM |
| S78.119A | Complete traumatic amputation at level between unspecified hip and knee, initial encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S78.119D | Complete traumatic amputation at level between unspecified hip and knee, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S78.119S | Complete traumatic amputation at level between unspecified hip and knee, sequela                    | Diagnosis     | ICD-10-CM |
| S78.12   | Partial traumatic amputation at level between hip and knee  | Diagnosis     | ICD-10-CM |
| S78.121  | Partial traumatic amputation at level between right hip and knee                                    | Diagnosis     | ICD-10-CM |
| S78.121A | Partial traumatic amputation at level between right hip and knee, initial encounter                 | Diagnosis     | ICD-10-CM |
| S78.121D | Partial traumatic amputation at level between right hip and knee, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S78.121S | Partial traumatic amputation at level between right hip and knee, sequela                           | Diagnosis     | ICD-10-CM |
| S78.122  | Partial traumatic amputation at level between left hip and knee                                     | Diagnosis     | ICD-10-CM |
| S78.122A | Partial traumatic amputation at level between left hip and knee, initial encounter                  | Diagnosis     | ICD-10-CM |
| S78.122D | Partial traumatic amputation at level between left hip and knee, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S78.122S | Partial traumatic amputation at level between left hip and knee, sequela                            | Diagnosis     | ICD-10-CM |
| S78.129  | Partial traumatic amputation at level between unspecified hip and knee                              | Diagnosis     | ICD-10-CM |
| S78.129A | Partial traumatic amputation at level between unspecified hip and knee, initial encounter           | Diagnosis     | ICD-10-CM |
| S78.129D | Partial traumatic amputation at level between unspecified hip and knee, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S78.129S | Partial traumatic amputation at level between unspecified hip and knee, sequela                     | Diagnosis     | ICD-10-CM |
| S78.9    | Traumatic amputation of hip and thigh, level unspecified  | Diagnosis     | ICD-10-CM |
| S78.91   | Complete traumatic amputation of hip and thigh, level unspecified                                   | Diagnosis     | ICD-10-CM |
| S78.911  | Complete traumatic amputation of right hip and thigh, level unspecified                             | Diagnosis     | ICD-10-CM |
| S78.911A | Complete traumatic amputation of right hip and thigh, level unspecified, initial encounter          | Diagnosis     | ICD-10-CM |
| S78.911D | Complete traumatic amputation of right hip and thigh, level unspecified, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S78.911S | Complete traumatic amputation of right hip and thigh, level unspecified, sequela                    | Diagnosis     | ICD-10-CM |
| S78.912  | Complete traumatic amputation of left hip and thigh, level unspecified                              | Diagnosis     | ICD-10-CM |
| S78.912A | Complete traumatic amputation of left hip and thigh, level unspecified, initial encounter           | Diagnosis     | ICD-10-CM |
| S78.912D | Complete traumatic amputation of left hip and thigh, level unspecified, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S78.912S | Complete traumatic amputation of left hip and thigh, level unspecified, sequela                     | Diagnosis     | ICD-10-CM |
| S78.919  | Complete traumatic amputation of unspecified hip and thigh, level unspecified                       | Diagnosis     | ICD-10-CM |
| S78.919A | Complete traumatic amputation of unspecified hip and thigh, level unspecified, initial encounter    | Diagnosis     | ICD-10-CM |
| S78.919D | Complete traumatic amputation of unspecified hip and thigh, level unspecified, subsequent encounter | Diagnosis     | ICD-10-CM |
| S78.919S | Complete traumatic amputation of unspecified hip and thigh, level unspecified, sequela              | Diagnosis     | ICD-10-CM |
| S78.92   | Partial traumatic amputation of hip and thigh, level unspecified                                    | Diagnosis     | ICD-10-CM |
| S78.921  | Partial traumatic amputation of right hip and thigh, level unspecified                              | Diagnosis     | ICD-10-CM |
| S78.921A | Partial traumatic amputation of right hip and thigh, level unspecified, initial encounter           | Diagnosis     | ICD-10-CM |
| S78.921D | Partial traumatic amputation of right hip and thigh, level unspecified, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S78.921S | Partial traumatic amputation of right hip and thigh, level unspecified, sequela                     | Diagnosis     | ICD-10-CM |
| S78.922  | Partial traumatic amputation of left hip and thigh, level unspecified                               | Diagnosis     | ICD-10-CM |
| S78.922A | Partial traumatic amputation of left hip and thigh, level unspecified, initial encounter            | Diagnosis     | ICD-10-CM |
| S78.922D | Partial traumatic amputation of left hip and thigh, level unspecified, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S78.922S | Partial traumatic amputation of left hip and thigh, level unspecified, sequela                      | Diagnosis     | ICD-10-CM |
| S78.929  | Partial traumatic amputation of unspecified hip and thigh, level unspecified                        | Diagnosis     | ICD-10-CM |
| S78.929A | Partial traumatic amputation of unspecified hip and thigh, level unspecified, initial encounter     | Diagnosis     | ICD-10-CM |
| S78.929D | Partial traumatic amputation of unspecified hip and thigh, level unspecified, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S78.929S | Partial traumatic amputation of unspecified hip and thigh, level unspecified, sequela               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S79      | Other and unspecified injuries of hip and thigh   | Diagnosis     | ICD-10-CM |
| S79.0    | Physeal fracture of upper end of femur  | Diagnosis     | ICD-10-CM |
| S79.00   | Unspecified physeal fracture of upper end of femur  | Diagnosis     | ICD-10-CM |
| S79.001  | Unspecified physeal fracture of upper end of right femur  | Diagnosis     | ICD-10-CM |
| S79.001A | Unspecified physeal fracture of upper end of right femur, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S79.001D | Unspecified physeal fracture of upper end of right femur, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S79.001G | Unspecified physeal fracture of upper end of right femur, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S79.001K | Unspecified physeal fracture of upper end of right femur, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S79.001P | Unspecified physeal fracture of upper end of right femur, subsequent encounter for fracture with malunion                 | Diagnosis     | ICD-10-CM |
| S79.001S | Unspecified physeal fracture of upper end of right femur, sequela   | Diagnosis     | ICD-10-CM |
| S79.002  | Unspecified physeal fracture of upper end of left femur   | Diagnosis     | ICD-10-CM |
| S79.002A | Unspecified physeal fracture of upper end of left femur, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S79.002D | Unspecified physeal fracture of upper end of left femur, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S79.002G | Unspecified physeal fracture of upper end of left femur, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S79.002K | Unspecified physeal fracture of upper end of left femur, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S79.002P | Unspecified physeal fracture of upper end of left femur, subsequent encounter for fracture with malunion                  | Diagnosis     | ICD-10-CM |
| S79.002S | Unspecified physeal fracture of upper end of left femur, sequela  | Diagnosis     | ICD-10-CM |
| S79.009  | Unspecified physeal fracture of upper end of unspecified femur  | Diagnosis     | ICD-10-CM |
| S79.009A | Unspecified physeal fracture of upper end of unspecified femur, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S79.009D | Unspecified physeal fracture of upper end of unspecified femur, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S79.009G | Unspecified physeal fracture of upper end of unspecified femur, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S79.009K | Unspecified physeal fracture of upper end of unspecified femur, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S79.009P | Unspecified physeal fracture of upper end of unspecified femur, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S79.009S | Unspecified physeal fracture of upper end of unspecified femur, sequela   | Diagnosis     | ICD-10-CM |
| S79.01   | Salter-Harris Type I physeal fracture of upper end of femur   | Diagnosis     | ICD-10-CM |
| S79.011  | Salter-Harris Type I physeal fracture of upper end of right femur   | Diagnosis     | ICD-10-CM |
| S79.011A | Salter-Harris Type I physeal fracture of upper end of right femur, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S79.011D | Salter-Harris Type I physeal fracture of upper end of right femur, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S79.011G | Salter-Harris Type I physeal fracture of upper end of right femur, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S79.011K | Salter-Harris Type I physeal fracture of upper end of right femur, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S79.011P | Salter-Harris Type I physeal fracture of upper end of right femur, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S79.011S | Salter-Harris Type I physeal fracture of upper end of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S79.012  | Salter-Harris Type I physeal fracture of upper end of left femur  | Diagnosis     | ICD-10-CM |
| S79.012A | Salter-Harris Type I physeal fracture of upper end of left femur, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S79.012D | Salter-Harris Type I physeal fracture of upper end of left femur, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S79.012G | Salter-Harris Type I physeal fracture of upper end of left femur, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S79.012K | Salter-Harris Type I physeal fracture of upper end of left femur, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S79.012P | Salter-Harris Type I physeal fracture of upper end of left femur, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S79.012S | Salter-Harris Type I physeal fracture of upper end of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S79.019  | Salter-Harris Type I physeal fracture of upper end of unspecified femur   | Diagnosis     | ICD-10-CM |
| S79.019A | Salter-Harris Type I physeal fracture of upper end of unspecified femur, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S79.019D | Salter-Harris Type I physeal fracture of upper end of unspecified femur, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S79.019G | Salter-Harris Type I physeal fracture of upper end of unspecified femur, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S79.019K | Salter-Harris Type I physeal fracture of upper end of unspecified femur, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S79.019P | Salter-Harris Type I physeal fracture of upper end of unspecified femur, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S79.019S | Salter-Harris Type I physeal fracture of upper end of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S79.09   | Other physeal fracture of upper end of femur  | Diagnosis     | ICD-10-CM |
| S79.091  | Other physeal fracture of upper end of right femur  | Diagnosis     | ICD-10-CM |
| S79.091A | Other physeal fracture of upper end of right femur, initial encounter for closed fracture                                       | Diagnosis     | ICD-10-CM |
| S79.091D | Other physeal fracture of upper end of right femur, subsequent encounter for fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S79.091G | Other physeal fracture of upper end of right femur, subsequent encounter for fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S79.091K | Other physeal fracture of upper end of right femur, subsequent encounter for fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S79.091P | Other physeal fracture of upper end of right femur, subsequent encounter for fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S79.091S | Other physeal fracture of upper end of right femur, sequela   | Diagnosis     | ICD-10-CM |
| S79.092  | Other physeal fracture of upper end of left femur   | Diagnosis     | ICD-10-CM |
| S79.092A | Other physeal fracture of upper end of left femur, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S79.092D | Other physeal fracture of upper end of left femur, subsequent encounter for fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S79.092G | Other physeal fracture of upper end of left femur, subsequent encounter for fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S79.092K | Other physeal fracture of upper end of left femur, subsequent encounter for fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S79.092P | Other physeal fracture of upper end of left femur, subsequent encounter for fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S79.092S | Other physeal fracture of upper end of left femur, sequela  | Diagnosis     | ICD-10-CM |
| S79.099  | Other physeal fracture of upper end of unspecified femur  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S79.099A | Other physeal fracture of upper end of unspecified femur, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S79.099D | Other physeal fracture of upper end of unspecified femur, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S79.099G | Other physeal fracture of upper end of unspecified femur, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S79.099K | Other physeal fracture of upper end of unspecified femur, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S79.099P | Other physeal fracture of upper end of unspecified femur, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S79.099S | Other physeal fracture of upper end of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S79.1    | Physeal fracture of lower end of femur   | Diagnosis     | ICD-10-CM |
| S79.10   | Unspecified physeal fracture of lower end of femur   | Diagnosis     | ICD-10-CM |
| S79.101  | Unspecified physeal fracture of lower end of right femur   | Diagnosis     | ICD-10-CM |
| S79.101A | Unspecified physeal fracture of lower end of right femur, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S79.101D | Unspecified physeal fracture of lower end of right femur, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S79.101G | Unspecified physeal fracture of lower end of right femur, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S79.101K | Unspecified physeal fracture of lower end of right femur, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S79.101P | Unspecified physeal fracture of lower end of right femur, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S79.101S | Unspecified physeal fracture of lower end of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S79.102  | Unspecified physeal fracture of lower end of left femur  | Diagnosis     | ICD-10-CM |
| S79.102A | Unspecified physeal fracture of lower end of left femur, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S79.102D | Unspecified physeal fracture of lower end of left femur, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S79.102G | Unspecified physeal fracture of lower end of left femur, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S79.102K | Unspecified physeal fracture of lower end of left femur, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S79.102P | Unspecified physeal fracture of lower end of left femur, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S79.102S | Unspecified physeal fracture of lower end of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S79.109  | Unspecified physeal fracture of lower end of unspecified femur   | Diagnosis     | ICD-10-CM |
| S79.109A | Unspecified physeal fracture of lower end of unspecified femur, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S79.109D | Unspecified physeal fracture of lower end of unspecified femur, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S79.109G | Unspecified physeal fracture of lower end of unspecified femur, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S79.109K | Unspecified physeal fracture of lower end of unspecified femur, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S79.109P | Unspecified physeal fracture of lower end of unspecified femur, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S79.109S | Unspecified physeal fracture of lower end of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S79.11   | Salter-Harris Type I physeal fracture of lower end of femur  | Diagnosis     | ICD-10-CM |
| S79.111  | Salter-Harris Type I physeal fracture of lower end of right femur  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S79.111A | Salter-Harris Type I physeal fracture of lower end of right femur, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S79.111D | Salter-Harris Type I physeal fracture of lower end of right femur, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S79.111G | Salter-Harris Type I physeal fracture of lower end of right femur, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S79.111K | Salter-Harris Type I physeal fracture of lower end of right femur, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S79.111P | Salter-Harris Type I physeal fracture of lower end of right femur, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S79.111S | Salter-Harris Type I physeal fracture of lower end of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S79.112  | Salter-Harris Type I physeal fracture of lower end of left femur  | Diagnosis     | ICD-10-CM |
| S79.112A | Salter-Harris Type I physeal fracture of lower end of left femur, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S79.112D | Salter-Harris Type I physeal fracture of lower end of left femur, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S79.112G | Salter-Harris Type I physeal fracture of lower end of left femur, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S79.112K | Salter-Harris Type I physeal fracture of lower end of left femur, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S79.112P | Salter-Harris Type I physeal fracture of lower end of left femur, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S79.112S | Salter-Harris Type I physeal fracture of lower end of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S79.119  | Salter-Harris Type I physeal fracture of lower end of unspecified femur   | Diagnosis     | ICD-10-CM |
| S79.119A | Salter-Harris Type I physeal fracture of lower end of unspecified femur, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S79.119D | Salter-Harris Type I physeal fracture of lower end of unspecified femur, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S79.119G | Salter-Harris Type I physeal fracture of lower end of unspecified femur, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S79.119K | Salter-Harris Type I physeal fracture of lower end of unspecified femur, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S79.119P | Salter-Harris Type I physeal fracture of lower end of unspecified femur, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S79.119S | Salter-Harris Type I physeal fracture of lower end of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S79.12   | Salter-Harris Type II physeal fracture of lower end of femur  | Diagnosis     | ICD-10-CM |
| S79.121  | Salter-Harris Type II physeal fracture of lower end of right femur  | Diagnosis     | ICD-10-CM |
| S79.121A | Salter-Harris Type II physeal fracture of lower end of right femur, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S79.121D | Salter-Harris Type II physeal fracture of lower end of right femur, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S79.121G | Salter-Harris Type II physeal fracture of lower end of right femur, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S79.121K | Salter-Harris Type II physeal fracture of lower end of right femur, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S79.121P | Salter-Harris Type II physeal fracture of lower end of right femur, subsequent encounter for fracture with malunion             | Diagnosis     | ICD-10-CM |
| S79.121S | Salter-Harris Type II physeal fracture of lower end of right femur, sequela   | Diagnosis     | ICD-10-CM |
| S79.122  | Salter-Harris Type II physeal fracture of lower end of left femur   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S79.122A | Salter-Harris Type II physeal fracture of lower end of left femur, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S79.122D | Salter-Harris Type II physeal fracture of lower end of left femur, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S79.122G | Salter-Harris Type II physeal fracture of lower end of left femur, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S79.122K | Salter-Harris Type II physeal fracture of lower end of left femur, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S79.122P | Salter-Harris Type II physeal fracture of lower end of left femur, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S79.122S | Salter-Harris Type II physeal fracture of lower end of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S79.129  | Salter-Harris Type II physeal fracture of lower end of unspecified femur   | Diagnosis     | ICD-10-CM |
| S79.129A | Salter-Harris Type II physeal fracture of lower end of unspecified femur, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S79.129D | Salter-Harris Type II physeal fracture of lower end of unspecified femur, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S79.129G | Salter-Harris Type II physeal fracture of lower end of unspecified femur, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S79.129K | Salter-Harris Type II physeal fracture of lower end of unspecified femur, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S79.129P | Salter-Harris Type II physeal fracture of lower end of unspecified femur, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S79.129S | Salter-Harris Type II physeal fracture of lower end of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S79.13   | Salter-Harris Type III physeal fracture of lower end of femur  | Diagnosis     | ICD-10-CM |
| S79.131  | Salter-Harris Type III physeal fracture of lower end of right femur  | Diagnosis     | ICD-10-CM |
| S79.131A | Salter-Harris Type III physeal fracture of lower end of right femur, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S79.131D | Salter-Harris Type III physeal fracture of lower end of right femur, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S79.131G | Salter-Harris Type III physeal fracture of lower end of right femur, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S79.131K | Salter-Harris Type III physeal fracture of lower end of right femur, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S79.131P | Salter-Harris Type III physeal fracture of lower end of right femur, subsequent encounter for fracture with malunion             | Diagnosis     | ICD-10-CM |
| S79.131S | Salter-Harris Type III physeal fracture of lower end of right femur, sequela   | Diagnosis     | ICD-10-CM |
| S79.132  | Salter-Harris Type III physeal fracture of lower end of left femur   | Diagnosis     | ICD-10-CM |
| S79.132A | Salter-Harris Type III physeal fracture of lower end of left femur, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S79.132D | Salter-Harris Type III physeal fracture of lower end of left femur, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S79.132G | Salter-Harris Type III physeal fracture of lower end of left femur, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S79.132K | Salter-Harris Type III physeal fracture of lower end of left femur, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S79.132P | Salter-Harris Type III physeal fracture of lower end of left femur, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S79.132S | Salter-Harris Type III physeal fracture of lower end of left femur, sequela  | Diagnosis     | ICD-10-CM |
| S79.139  | Salter-Harris Type III physeal fracture of lower end of unspecified femur  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S79.139A | Salter-Harris Type III physeal fracture of lower end of unspecified femur, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S79.139D | Salter-Harris Type III physeal fracture of lower end of unspecified femur, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S79.139G | Salter-Harris Type III physeal fracture of lower end of unspecified femur, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S79.139K | Salter-Harris Type III physeal fracture of lower end of unspecified femur, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S79.139P | Salter-Harris Type III physeal fracture of lower end of unspecified femur, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S79.139S | Salter-Harris Type III physeal fracture of lower end of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S79.14   | Salter-Harris Type IV physeal fracture of lower end of femur  | Diagnosis     | ICD-10-CM |
| S79.141  | Salter-Harris Type IV physeal fracture of lower end of right femur  | Diagnosis     | ICD-10-CM |
| S79.141A | Salter-Harris Type IV physeal fracture of lower end of right femur, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S79.141D | Salter-Harris Type IV physeal fracture of lower end of right femur, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S79.141G | Salter-Harris Type IV physeal fracture of lower end of right femur, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S79.141K | Salter-Harris Type IV physeal fracture of lower end of right femur, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S79.141P | Salter-Harris Type IV physeal fracture of lower end of right femur, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S79.141S | Salter-Harris Type IV physeal fracture of lower end of right femur, sequela   | Diagnosis     | ICD-10-CM |
| S79.142  | Salter-Harris Type IV physeal fracture of lower end of left femur   | Diagnosis     | ICD-10-CM |
| S79.142A | Salter-Harris Type IV physeal fracture of lower end of left femur, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S79.142D | Salter-Harris Type IV physeal fracture of lower end of left femur, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S79.142G | Salter-Harris Type IV physeal fracture of lower end of left femur, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S79.142K | Salter-Harris Type IV physeal fracture of lower end of left femur, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S79.142P | Salter-Harris Type IV physeal fracture of lower end of left femur, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S79.142S | Salter-Harris Type IV physeal fracture of lower end of left femur, sequela  | Diagnosis     | ICD-10-CM |
| S79.149  | Salter-Harris Type IV physeal fracture of lower end of unspecified femur  | Diagnosis     | ICD-10-CM |
| S79.149A | Salter-Harris Type IV physeal fracture of lower end of unspecified femur, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S79.149D | Salter-Harris Type IV physeal fracture of lower end of unspecified femur, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S79.149G | Salter-Harris Type IV physeal fracture of lower end of unspecified femur, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S79.149K | Salter-Harris Type IV physeal fracture of lower end of unspecified femur, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S79.149P | Salter-Harris Type IV physeal fracture of lower end of unspecified femur, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S79.149S | Salter-Harris Type IV physeal fracture of lower end of unspecified femur, sequela   | Diagnosis     | ICD-10-CM |
| S79.19   | Other physeal fracture of lower end of femur  | Diagnosis     | ICD-10-CM |
| S79.191  | Other physeal fracture of lower end of right femur  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S79.191A | Other physeal fracture of lower end of right femur, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S79.191D | Other physeal fracture of lower end of right femur, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S79.191G | Other physeal fracture of lower end of right femur, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S79.191K | Other physeal fracture of lower end of right femur, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S79.191P | Other physeal fracture of lower end of right femur, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S79.191S | Other physeal fracture of lower end of right femur, sequela  | Diagnosis     | ICD-10-CM |
| S79.192  | Other physeal fracture of lower end of left femur  | Diagnosis     | ICD-10-CM |
| S79.192A | Other physeal fracture of lower end of left femur, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S79.192D | Other physeal fracture of lower end of left femur, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S79.192G | Other physeal fracture of lower end of left femur, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S79.192K | Other physeal fracture of lower end of left femur, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S79.192P | Other physeal fracture of lower end of left femur, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S79.192S | Other physeal fracture of lower end of left femur, sequela   | Diagnosis     | ICD-10-CM |
| S79.199  | Other physeal fracture of lower end of unspecified femur   | Diagnosis     | ICD-10-CM |
| S79.199A | Other physeal fracture of lower end of unspecified femur, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S79.199D | Other physeal fracture of lower end of unspecified femur, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S79.199G | Other physeal fracture of lower end of unspecified femur, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S79.199K | Other physeal fracture of lower end of unspecified femur, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S79.199P | Other physeal fracture of lower end of unspecified femur, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S79.199S | Other physeal fracture of lower end of unspecified femur, sequela  | Diagnosis     | ICD-10-CM |
| S79.8    | Other specified injuries of hip and thigh  | Diagnosis     | ICD-10-CM |
| S79.81   | Other specified injuries of hip  | Diagnosis     | ICD-10-CM |
| S79.811  | Other specified injuries of right hip  | Diagnosis     | ICD-10-CM |
| S79.811A | Other specified injuries of right hip, initial encounter   | Diagnosis     | ICD-10-CM |
| S79.811D | Other specified injuries of right hip, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S79.811S | Other specified injuries of right hip, sequela   | Diagnosis     | ICD-10-CM |
| S79.812  | Other specified injuries of left hip   | Diagnosis     | ICD-10-CM |
| S79.812A | Other specified injuries of left hip, initial encounter  | Diagnosis     | ICD-10-CM |
| S79.812D | Other specified injuries of left hip, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S79.812S | Other specified injuries of left hip, sequela  | Diagnosis     | ICD-10-CM |
| S79.819  | Other specified injuries of unspecified hip  | Diagnosis     | ICD-10-CM |
| S79.819A | Other specified injuries of unspecified hip, initial encounter   | Diagnosis     | ICD-10-CM |
| S79.819D | Other specified injuries of unspecified hip, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S79.819S | Other specified injuries of unspecified hip, sequela   | Diagnosis     | ICD-10-CM |
| S79.82   | Other specified injuries of thigh  | Diagnosis     | ICD-10-CM |
| S79.821  | Other specified injuries of right thigh  | Diagnosis     | ICD-10-CM |
| S79.821A | Other specified injuries of right thigh, initial encounter   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S79.821D | Other specified injuries of right thigh, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S79.821S | Other specified injuries of right thigh, sequela                    | Diagnosis     | ICD-10-CM |
| S79.822  | Other specified injuries of left thigh                              | Diagnosis     | ICD-10-CM |
| S79.822A | Other specified injuries of left thigh, initial encounter           | Diagnosis     | ICD-10-CM |
| S79.822D | Other specified injuries of left thigh, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S79.822S | Other specified injuries of left thigh, sequela                     | Diagnosis     | ICD-10-CM |
| S79.829  | Other specified injuries of unspecified thigh                       | Diagnosis     | ICD-10-CM |
| S79.829A | Other specified injuries of unspecified thigh, initial encounter    | Diagnosis     | ICD-10-CM |
| S79.829D | Other specified injuries of unspecified thigh, subsequent encounter | Diagnosis     | ICD-10-CM |
| S79.829S | Other specified injuries of unspecified thigh, sequela              | Diagnosis     | ICD-10-CM |
| S79.9    | Unspecified injury of hip and thigh                                 | Diagnosis     | ICD-10-CM |
| S79.91   | Unspecified injury of hip   | Diagnosis     | ICD-10-CM |
| S79.911  | Unspecified injury of right hip                                     | Diagnosis     | ICD-10-CM |
| S79.911A | Unspecified injury of right hip, initial encounter                  | Diagnosis     | ICD-10-CM |
| S79.911D | Unspecified injury of right hip, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S79.911S | Unspecified injury of right hip, sequela                            | Diagnosis     | ICD-10-CM |
| S79.912  | Unspecified injury of left hip                                      | Diagnosis     | ICD-10-CM |
| S79.912A | Unspecified injury of left hip, initial encounter                   | Diagnosis     | ICD-10-CM |
| S79.912D | Unspecified injury of left hip, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S79.912S | Unspecified injury of left hip, sequela                             | Diagnosis     | ICD-10-CM |
| S79.919  | Unspecified injury of unspecified hip                               | Diagnosis     | ICD-10-CM |
| S79.919A | Unspecified injury of unspecified hip, initial encounter            | Diagnosis     | ICD-10-CM |
| S79.919D | Unspecified injury of unspecified hip, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S79.919S | Unspecified injury of unspecified hip, sequela                      | Diagnosis     | ICD-10-CM |
| S79.92   | Unspecified injury of thigh   | Diagnosis     | ICD-10-CM |
| S79.921  | Unspecified injury of right thigh                                   | Diagnosis     | ICD-10-CM |
| S79.921A | Unspecified injury of right thigh, initial encounter                | Diagnosis     | ICD-10-CM |
| S79.921D | Unspecified injury of right thigh, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S79.921S | Unspecified injury of right thigh, sequela                          | Diagnosis     | ICD-10-CM |
| S79.922  | Unspecified injury of left thigh                                    | Diagnosis     | ICD-10-CM |
| S79.922A | Unspecified injury of left thigh, initial encounter                 | Diagnosis     | ICD-10-CM |
| S79.922D | Unspecified injury of left thigh, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S79.922S | Unspecified injury of left thigh, sequela                           | Diagnosis     | ICD-10-CM |
| S79.929  | Unspecified injury of unspecified thigh                             | Diagnosis     | ICD-10-CM |
| S79.929A | Unspecified injury of unspecified thigh, initial encounter          | Diagnosis     | ICD-10-CM |
| S79.929D | Unspecified injury of unspecified thigh, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S79.929S | Unspecified injury of unspecified thigh, sequela                    | Diagnosis     | ICD-10-CM |
| S80      | Superficial injury of knee and lower leg                            | Diagnosis     | ICD-10-CM |
| S80.0    | Contusion of knee   | Diagnosis     | ICD-10-CM |
| S80.00   | Contusion of unspecified knee                                       | Diagnosis     | ICD-10-CM |
| S80.00XA | Contusion of unspecified knee, initial encounter                    | Diagnosis     | ICD-10-CM |
| S80.00XD | Contusion of unspecified knee, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S80.00XS | Contusion of unspecified knee, sequela                              | Diagnosis     | ICD-10-CM |
| S80.01   | Contusion of right knee   | Diagnosis     | ICD-10-CM |
| S80.01XA | Contusion of right knee, initial encounter                          | Diagnosis     | ICD-10-CM |
| S80.01XD | Contusion of right knee, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S80.01XS | Contusion of right knee, sequela                                    | Diagnosis     | ICD-10-CM |
| S80.02   | Contusion of left knee  | Diagnosis     | ICD-10-CM |
| S80.02XA | Contusion of left knee, initial encounter                           | Diagnosis     | ICD-10-CM |
| S80.02XD | Contusion of left knee, subsequent encounter                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S80.02XS | Contusion of left knee, sequela                              | Diagnosis     | ICD-10-CM |
| S80.1    | Contusion of lower leg                                       | Diagnosis     | ICD-10-CM |
| S80.10   | Contusion of unspecified lower leg                           | Diagnosis     | ICD-10-CM |
| S80.10XA | Contusion of unspecified lower leg, initial encounter        | Diagnosis     | ICD-10-CM |
| S80.10XD | Contusion of unspecified lower leg, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S80.10XS | Contusion of unspecified lower leg, sequela                  | Diagnosis     | ICD-10-CM |
| S80.11   | Contusion of right lower leg                                 | Diagnosis     | ICD-10-CM |
| S80.11XA | Contusion of right lower leg, initial encounter              | Diagnosis     | ICD-10-CM |
| S80.11XD | Contusion of right lower leg, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S80.11XS | Contusion of right lower leg, sequela                        | Diagnosis     | ICD-10-CM |
| S80.12   | Contusion of left lower leg                                  | Diagnosis     | ICD-10-CM |
| S80.12XA | Contusion of left lower leg, initial encounter               | Diagnosis     | ICD-10-CM |
| S80.12XD | Contusion of left lower leg, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S80.12XS | Contusion of left lower leg, sequela                         | Diagnosis     | ICD-10-CM |
| S80.2    | Other superficial injuries of knee                           | Diagnosis     | ICD-10-CM |
| S80.21   | Abrasion of knee   | Diagnosis     | ICD-10-CM |
| S80.211  | Abrasion, right knee   | Diagnosis     | ICD-10-CM |
| S80.211A | Abrasion, right knee, initial encounter                      | Diagnosis     | ICD-10-CM |
| S80.211D | Abrasion, right knee, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S80.211S | Abrasion, right knee, sequela                                | Diagnosis     | ICD-10-CM |
| S80.212  | Abrasion, left knee  | Diagnosis     | ICD-10-CM |
| S80.212A | Abrasion, left knee, initial encounter                       | Diagnosis     | ICD-10-CM |
| S80.212D | Abrasion, left knee, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S80.212S | Abrasion, left knee, sequela                                 | Diagnosis     | ICD-10-CM |
| S80.219  | Abrasion, unspecified knee                                   | Diagnosis     | ICD-10-CM |
| S80.219A | Abrasion, unspecified knee, initial encounter                | Diagnosis     | ICD-10-CM |
| S80.219D | Abrasion, unspecified knee, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S80.219S | Abrasion, unspecified knee, sequela                          | Diagnosis     | ICD-10-CM |
| S80.22   | Blister (nonthermal) of knee                                 | Diagnosis     | ICD-10-CM |
| S80.221  | Blister (nonthermal), right knee                             | Diagnosis     | ICD-10-CM |
| S80.221A | Blister (nonthermal), right knee, initial encounter          | Diagnosis     | ICD-10-CM |
| S80.221D | Blister (nonthermal), right knee, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S80.221S | Blister (nonthermal), right knee, sequela                    | Diagnosis     | ICD-10-CM |
| S80.222  | Blister (nonthermal), left knee                              | Diagnosis     | ICD-10-CM |
| S80.222A | Blister (nonthermal), left knee, initial encounter           | Diagnosis     | ICD-10-CM |
| S80.222D | Blister (nonthermal), left knee, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S80.222S | Blister (nonthermal), left knee, sequela                     | Diagnosis     | ICD-10-CM |
| S80.229  | Blister (nonthermal), unspecified knee                       | Diagnosis     | ICD-10-CM |
| S80.229A | Blister (nonthermal), unspecified knee, initial encounter    | Diagnosis     | ICD-10-CM |
| S80.229D | Blister (nonthermal), unspecified knee, subsequent encounter | Diagnosis     | ICD-10-CM |
| S80.229S | Blister (nonthermal), unspecified knee, sequela              | Diagnosis     | ICD-10-CM |
| S80.24   | External constriction of knee                                | Diagnosis     | ICD-10-CM |
| S80.241  | External constriction, right knee                            | Diagnosis     | ICD-10-CM |
| S80.241A | External constriction, right knee, initial encounter         | Diagnosis     | ICD-10-CM |
| S80.241D | External constriction, right knee, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S80.241S | External constriction, right knee, sequela                   | Diagnosis     | ICD-10-CM |
| S80.242  | External constriction, left knee                             | Diagnosis     | ICD-10-CM |
| S80.242A | External constriction, left knee, initial encounter          | Diagnosis     | ICD-10-CM |
| S80.242D | External constriction, left knee, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S80.242S | External constriction, left knee, sequela                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S80.249  | External constriction, unspecified knee                           | Diagnosis     | ICD-10-CM |
| S80.249A | External constriction, unspecified knee, initial encounter        | Diagnosis     | ICD-10-CM |
| S80.249D | External constriction, unspecified knee, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S80.249S | External constriction, unspecified knee, sequela                  | Diagnosis     | ICD-10-CM |
| S80.25   | Superficial foreign body of knee                                  | Diagnosis     | ICD-10-CM |
| S80.251  | Superficial foreign body, right knee                              | Diagnosis     | ICD-10-CM |
| S80.251A | Superficial foreign body, right knee, initial encounter           | Diagnosis     | ICD-10-CM |
| S80.251D | Superficial foreign body, right knee, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S80.251S | Superficial foreign body, right knee, sequela                     | Diagnosis     | ICD-10-CM |
| S80.252  | Superficial foreign body, left knee                               | Diagnosis     | ICD-10-CM |
| S80.252A | Superficial foreign body, left knee, initial encounter            | Diagnosis     | ICD-10-CM |
| S80.252D | Superficial foreign body, left knee, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S80.252S | Superficial foreign body, left knee, sequela                      | Diagnosis     | ICD-10-CM |
| S80.259  | Superficial foreign body, unspecified knee                        | Diagnosis     | ICD-10-CM |
| S80.259A | Superficial foreign body, unspecified knee, initial encounter     | Diagnosis     | ICD-10-CM |
| S80.259D | Superficial foreign body, unspecified knee, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S80.259S | Superficial foreign body, unspecified knee, sequela               | Diagnosis     | ICD-10-CM |
| S80.26   | Insect bite (nonvenomous) of knee                                 | Diagnosis     | ICD-10-CM |
| S80.261  | Insect bite (nonvenomous), right knee                             | Diagnosis     | ICD-10-CM |
| S80.261A | Insect bite (nonvenomous), right knee, initial encounter          | Diagnosis     | ICD-10-CM |
| S80.261D | Insect bite (nonvenomous), right knee, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S80.261S | Insect bite (nonvenomous), right knee, sequela                    | Diagnosis     | ICD-10-CM |
| S80.262  | Insect bite (nonvenomous), left knee                              | Diagnosis     | ICD-10-CM |
| S80.262A | Insect bite (nonvenomous), left knee, initial encounter           | Diagnosis     | ICD-10-CM |
| S80.262D | Insect bite (nonvenomous), left knee, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S80.262S | Insect bite (nonvenomous), left knee, sequela                     | Diagnosis     | ICD-10-CM |
| S80.269  | Insect bite (nonvenomous), unspecified knee                       | Diagnosis     | ICD-10-CM |
| S80.269A | Insect bite (nonvenomous), unspecified knee, initial encounter    | Diagnosis     | ICD-10-CM |
| S80.269D | Insect bite (nonvenomous), unspecified knee, subsequent encounter | Diagnosis     | ICD-10-CM |
| S80.269S | Insect bite (nonvenomous), unspecified knee, sequela              | Diagnosis     | ICD-10-CM |
| S80.27   | Other superficial bite of knee                                    | Diagnosis     | ICD-10-CM |
| S80.271  | Other superficial bite of right knee                              | Diagnosis     | ICD-10-CM |
| S80.271A | Other superficial bite of right knee, initial encounter           | Diagnosis     | ICD-10-CM |
| S80.271D | Other superficial bite of right knee, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S80.271S | Other superficial bite of right knee, sequela                     | Diagnosis     | ICD-10-CM |
| S80.272  | Other superficial bite of left knee                               | Diagnosis     | ICD-10-CM |
| S80.272A | Other superficial bite of left knee, initial encounter            | Diagnosis     | ICD-10-CM |
| S80.272D | Other superficial bite of left knee, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S80.272S | Other superficial bite of left knee, sequela                      | Diagnosis     | ICD-10-CM |
| S80.279  | Other superficial bite of unspecified knee                        | Diagnosis     | ICD-10-CM |
| S80.279A | Other superficial bite of unspecified knee, initial encounter     | Diagnosis     | ICD-10-CM |
| S80.279D | Other superficial bite of unspecified knee, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S80.279S | Other superficial bite of unspecified knee, sequela               | Diagnosis     | ICD-10-CM |
| S80.8    | Other superficial injuries of lower leg                           | Diagnosis     | ICD-10-CM |
| S80.81   | Abrasion of lower leg   | Diagnosis     | ICD-10-CM |
| S80.811  | Abrasion, right lower leg   | Diagnosis     | ICD-10-CM |
| S80.811A | Abrasion, right lower leg, initial encounter                      | Diagnosis     | ICD-10-CM |
| S80.811D | Abrasion, right lower leg, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S80.811S | Abrasion, right lower leg, sequela                                | Diagnosis     | ICD-10-CM |
| S80.812  | Abrasion, left lower leg  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S80.812A | Abrasion, left lower leg, initial encounter                           | Diagnosis     | ICD-10-CM |
| S80.812D | Abrasion, left lower leg, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S80.812S | Abrasion, left lower leg, sequela                                     | Diagnosis     | ICD-10-CM |
| S80.819  | Abrasion, unspecified lower leg                                       | Diagnosis     | ICD-10-CM |
| S80.819A | Abrasion, unspecified lower leg, initial encounter                    | Diagnosis     | ICD-10-CM |
| S80.819D | Abrasion, unspecified lower leg, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S80.819S | Abrasion, unspecified lower leg, sequela                              | Diagnosis     | ICD-10-CM |
| S80.82   | Blister (nonthermal) of lower leg                                     | Diagnosis     | ICD-10-CM |
| S80.821  | Blister (nonthermal), right lower leg                                 | Diagnosis     | ICD-10-CM |
| S80.821A | Blister (nonthermal), right lower leg, initial encounter              | Diagnosis     | ICD-10-CM |
| S80.821D | Blister (nonthermal), right lower leg, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S80.821S | Blister (nonthermal), right lower leg, sequela                        | Diagnosis     | ICD-10-CM |
| S80.822  | Blister (nonthermal), left lower leg                                  | Diagnosis     | ICD-10-CM |
| S80.822A | Blister (nonthermal), left lower leg, initial encounter               | Diagnosis     | ICD-10-CM |
| S80.822D | Blister (nonthermal), left lower leg, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S80.822S | Blister (nonthermal), left lower leg, sequela                         | Diagnosis     | ICD-10-CM |
| S80.829  | Blister (nonthermal), unspecified lower leg                           | Diagnosis     | ICD-10-CM |
| S80.829A | Blister (nonthermal), unspecified lower leg, initial encounter        | Diagnosis     | ICD-10-CM |
| S80.829D | Blister (nonthermal), unspecified lower leg, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S80.829S | Blister (nonthermal), unspecified lower leg, sequela                  | Diagnosis     | ICD-10-CM |
| S80.84   | External constriction of lower leg                                    | Diagnosis     | ICD-10-CM |
| S80.841  | External constriction, right lower leg                                | Diagnosis     | ICD-10-CM |
| S80.841A | External constriction, right lower leg, initial encounter             | Diagnosis     | ICD-10-CM |
| S80.841D | External constriction, right lower leg, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S80.841S | External constriction, right lower leg, sequela                       | Diagnosis     | ICD-10-CM |
| S80.842  | External constriction, left lower leg                                 | Diagnosis     | ICD-10-CM |
| S80.842A | External constriction, left lower leg, initial encounter              | Diagnosis     | ICD-10-CM |
| S80.842D | External constriction, left lower leg, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S80.842S | External constriction, left lower leg, sequela                        | Diagnosis     | ICD-10-CM |
| S80.849  | External constriction, unspecified lower leg                          | Diagnosis     | ICD-10-CM |
| S80.849A | External constriction, unspecified lower leg, initial encounter       | Diagnosis     | ICD-10-CM |
| S80.849D | External constriction, unspecified lower leg, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S80.849S | External constriction, unspecified lower leg, sequela                 | Diagnosis     | ICD-10-CM |
| S80.85   | Superficial foreign body of lower leg                                 | Diagnosis     | ICD-10-CM |
| S80.851  | Superficial foreign body, right lower leg                             | Diagnosis     | ICD-10-CM |
| S80.851A | Superficial foreign body, right lower leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S80.851D | Superficial foreign body, right lower leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S80.851S | Superficial foreign body, right lower leg, sequela                    | Diagnosis     | ICD-10-CM |
| S80.852  | Superficial foreign body, left lower leg                              | Diagnosis     | ICD-10-CM |
| S80.852A | Superficial foreign body, left lower leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S80.852D | Superficial foreign body, left lower leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S80.852S | Superficial foreign body, left lower leg, sequela                     | Diagnosis     | ICD-10-CM |
| S80.859  | Superficial foreign body, unspecified lower leg                       | Diagnosis     | ICD-10-CM |
| S80.859A | Superficial foreign body, unspecified lower leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S80.859D | Superficial foreign body, unspecified lower leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S80.859S | Superficial foreign body, unspecified lower leg, sequela              | Diagnosis     | ICD-10-CM |
| S80.86   | Insect bite (nonvenomous) of lower leg                                | Diagnosis     | ICD-10-CM |
| S80.861  | Insect bite (nonvenomous), right lower leg                            | Diagnosis     | ICD-10-CM |
| S80.861A | Insect bite (nonvenomous), right lower leg, initial encounter         | Diagnosis     | ICD-10-CM |
| S80.861D | Insect bite (nonvenomous), right lower leg, subsequent encounter      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S80.861S | Insect bite (nonvenomous), right lower leg, sequela                           | Diagnosis     | ICD-10-CM |
| S80.862  | Insect bite (nonvenomous), left lower leg                                     | Diagnosis     | ICD-10-CM |
| S80.862A | Insect bite (nonvenomous), left lower leg, initial encounter                  | Diagnosis     | ICD-10-CM |
| S80.862D | Insect bite (nonvenomous), left lower leg, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S80.862S | Insect bite (nonvenomous), left lower leg, sequela                            | Diagnosis     | ICD-10-CM |
| S80.869  | Insect bite (nonvenomous), unspecified lower leg                              | Diagnosis     | ICD-10-CM |
| S80.869A | Insect bite (nonvenomous), unspecified lower leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S80.869D | Insect bite (nonvenomous), unspecified lower leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S80.869S | Insect bite (nonvenomous), unspecified lower leg, sequela                     | Diagnosis     | ICD-10-CM |
| S80.87   | Other superficial bite of lower leg   | Diagnosis     | ICD-10-CM |
| S80.871  | Other superficial bite, right lower leg                                       | Diagnosis     | ICD-10-CM |
| S80.871A | Other superficial bite, right lower leg, initial encounter                    | Diagnosis     | ICD-10-CM |
| S80.871D | Other superficial bite, right lower leg, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S80.871S | Other superficial bite, right lower leg, sequela                              | Diagnosis     | ICD-10-CM |
| S80.872  | Other superficial bite, left lower leg  | Diagnosis     | ICD-10-CM |
| S80.872A | Other superficial bite, left lower leg, initial encounter                     | Diagnosis     | ICD-10-CM |
| S80.872D | Other superficial bite, left lower leg, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S80.872S | Other superficial bite, left lower leg, sequela                               | Diagnosis     | ICD-10-CM |
| S80.879  | Other superficial bite, unspecified lower leg                                 | Diagnosis     | ICD-10-CM |
| S80.879A | Other superficial bite, unspecified lower leg, initial encounter              | Diagnosis     | ICD-10-CM |
| S80.879D | Other superficial bite, unspecified lower leg, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S80.879S | Other superficial bite, unspecified lower leg, sequela                        | Diagnosis     | ICD-10-CM |
| S80.9    | Unspecified superficial injury of knee and lower leg                          | Diagnosis     | ICD-10-CM |
| S80.91   | Unspecified superficial injury of knee  | Diagnosis     | ICD-10-CM |
| S80.911  | Unspecified superficial injury of right knee                                  | Diagnosis     | ICD-10-CM |
| S80.911A | Unspecified superficial injury of right knee, initial encounter               | Diagnosis     | ICD-10-CM |
| S80.911D | Unspecified superficial injury of right knee, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S80.911S | Unspecified superficial injury of right knee, sequela                         | Diagnosis     | ICD-10-CM |
| S80.912  | Unspecified superficial injury of left knee                                   | Diagnosis     | ICD-10-CM |
| S80.912A | Unspecified superficial injury of left knee, initial encounter                | Diagnosis     | ICD-10-CM |
| S80.912D | Unspecified superficial injury of left knee, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S80.912S | Unspecified superficial injury of left knee, sequela                          | Diagnosis     | ICD-10-CM |
| S80.919  | Unspecified superficial injury of unspecified knee                            | Diagnosis     | ICD-10-CM |
| S80.919A | Unspecified superficial injury of unspecified knee, initial encounter         | Diagnosis     | ICD-10-CM |
| S80.919D | Unspecified superficial injury of unspecified knee, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S80.919S | Unspecified superficial injury of unspecified knee, sequela                   | Diagnosis     | ICD-10-CM |
| S80.92   | Unspecified superficial injury of lower leg                                   | Diagnosis     | ICD-10-CM |
| S80.921  | Unspecified superficial injury of right lower leg                             | Diagnosis     | ICD-10-CM |
| S80.921A | Unspecified superficial injury of right lower leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S80.921D | Unspecified superficial injury of right lower leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S80.921S | Unspecified superficial injury of right lower leg, sequela                    | Diagnosis     | ICD-10-CM |
| S80.922  | Unspecified superficial injury of left lower leg                              | Diagnosis     | ICD-10-CM |
| S80.922A | Unspecified superficial injury of left lower leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S80.922D | Unspecified superficial injury of left lower leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S80.922S | Unspecified superficial injury of left lower leg, sequela                     | Diagnosis     | ICD-10-CM |
| S80.929  | Unspecified superficial injury of unspecified lower leg                       | Diagnosis     | ICD-10-CM |
| S80.929A | Unspecified superficial injury of unspecified lower leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S80.929D | Unspecified superficial injury of unspecified lower leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S80.929S | Unspecified superficial injury of unspecified lower leg, sequela              | Diagnosis     | ICD-10-CM |
| S81      | Open wound of knee and lower leg  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S81.0    | Open wound of knee  | Diagnosis     | ICD-10-CM |
| S81.00   | Unspecified open wound of knee  | Diagnosis     | ICD-10-CM |
| S81.001  | Unspecified open wound, right knee                                      | Diagnosis     | ICD-10-CM |
| S81.001A | Unspecified open wound, right knee, initial encounter                   | Diagnosis     | ICD-10-CM |
| S81.001D | Unspecified open wound, right knee, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S81.001S | Unspecified open wound, right knee, sequela                             | Diagnosis     | ICD-10-CM |
| S81.002  | Unspecified open wound, left knee                                       | Diagnosis     | ICD-10-CM |
| S81.002A | Unspecified open wound, left knee, initial encounter                    | Diagnosis     | ICD-10-CM |
| S81.002D | Unspecified open wound, left knee, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S81.002S | Unspecified open wound, left knee, sequela                              | Diagnosis     | ICD-10-CM |
| S81.009  | Unspecified open wound, unspecified knee                                | Diagnosis     | ICD-10-CM |
| S81.009A | Unspecified open wound, unspecified knee, initial encounter             | Diagnosis     | ICD-10-CM |
| S81.009D | Unspecified open wound, unspecified knee, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S81.009S | Unspecified open wound, unspecified knee, sequela                       | Diagnosis     | ICD-10-CM |
| S81.01   | Laceration without foreign body of knee                                 | Diagnosis     | ICD-10-CM |
| S81.011  | Laceration without foreign body, right knee                             | Diagnosis     | ICD-10-CM |
| S81.011A | Laceration without foreign body, right knee, initial encounter          | Diagnosis     | ICD-10-CM |
| S81.011D | Laceration without foreign body, right knee, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S81.011S | Laceration without foreign body, right knee, sequela                    | Diagnosis     | ICD-10-CM |
| S81.012  | Laceration without foreign body, left knee                              | Diagnosis     | ICD-10-CM |
| S81.012A | Laceration without foreign body, left knee, initial encounter           | Diagnosis     | ICD-10-CM |
| S81.012D | Laceration without foreign body, left knee, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S81.012S | Laceration without foreign body, left knee, sequela                     | Diagnosis     | ICD-10-CM |
| S81.019  | Laceration without foreign body, unspecified knee                       | Diagnosis     | ICD-10-CM |
| S81.019A | Laceration without foreign body, unspecified knee, initial encounter    | Diagnosis     | ICD-10-CM |
| S81.019D | Laceration without foreign body, unspecified knee, subsequent encounter | Diagnosis     | ICD-10-CM |
| S81.019S | Laceration without foreign body, unspecified knee, sequela              | Diagnosis     | ICD-10-CM |
| S81.02   | Laceration with foreign body of knee                                    | Diagnosis     | ICD-10-CM |
| S81.021  | Laceration with foreign body, right knee                                | Diagnosis     | ICD-10-CM |
| S81.021A | Laceration with foreign body, right knee, initial encounter             | Diagnosis     | ICD-10-CM |
| S81.021D | Laceration with foreign body, right knee, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S81.021S | Laceration with foreign body, right knee, sequela                       | Diagnosis     | ICD-10-CM |
| S81.022  | Laceration with foreign body, left knee                                 | Diagnosis     | ICD-10-CM |
| S81.022A | Laceration with foreign body, left knee, initial encounter              | Diagnosis     | ICD-10-CM |
| S81.022D | Laceration with foreign body, left knee, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S81.022S | Laceration with foreign body, left knee, sequela                        | Diagnosis     | ICD-10-CM |
| S81.029  | Laceration with foreign body, unspecified knee                          | Diagnosis     | ICD-10-CM |
| S81.029A | Laceration with foreign body, unspecified knee, initial encounter       | Diagnosis     | ICD-10-CM |
| S81.029D | Laceration with foreign body, unspecified knee, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S81.029S | Laceration with foreign body, unspecified knee, sequela                 | Diagnosis     | ICD-10-CM |
| S81.03   | Puncture wound without foreign body of knee                             | Diagnosis     | ICD-10-CM |
| S81.031  | Puncture wound without foreign body, right knee                         | Diagnosis     | ICD-10-CM |
| S81.031A | Puncture wound without foreign body, right knee, initial encounter      | Diagnosis     | ICD-10-CM |
| S81.031D | Puncture wound without foreign body, right knee, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S81.031S | Puncture wound without foreign body, right knee, sequela                | Diagnosis     | ICD-10-CM |
| S81.032  | Puncture wound without foreign body, left knee                          | Diagnosis     | ICD-10-CM |
| S81.032A | Puncture wound without foreign body, left knee, initial encounter       | Diagnosis     | ICD-10-CM |
| S81.032D | Puncture wound without foreign body, left knee, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S81.032S | Puncture wound without foreign body, left knee, sequela                 | Diagnosis     | ICD-10-CM |
| S81.039  | Puncture wound without foreign body, unspecified knee                   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S81.039A | Puncture wound without foreign body, unspecified knee, initial encounter    | Diagnosis     | ICD-10-CM |
| S81.039D | Puncture wound without foreign body, unspecified knee, subsequent encounter | Diagnosis     | ICD-10-CM |
| S81.039S | Puncture wound without foreign body, unspecified knee, sequela              | Diagnosis     | ICD-10-CM |
| S81.04   | Puncture wound with foreign body of knee                                    | Diagnosis     | ICD-10-CM |
| S81.041  | Puncture wound with foreign body, right knee                                | Diagnosis     | ICD-10-CM |
| S81.041A | Puncture wound with foreign body, right knee, initial encounter             | Diagnosis     | ICD-10-CM |
| S81.041D | Puncture wound with foreign body, right knee, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S81.041S | Puncture wound with foreign body, right knee, sequela                       | Diagnosis     | ICD-10-CM |
| S81.042  | Puncture wound with foreign body, left knee                                 | Diagnosis     | ICD-10-CM |
| S81.042A | Puncture wound with foreign body, left knee, initial encounter              | Diagnosis     | ICD-10-CM |
| S81.042D | Puncture wound with foreign body, left knee, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S81.042S | Puncture wound with foreign body, left knee, sequela                        | Diagnosis     | ICD-10-CM |
| S81.049  | Puncture wound with foreign body, unspecified knee                          | Diagnosis     | ICD-10-CM |
| S81.049A | Puncture wound with foreign body, unspecified knee, initial encounter       | Diagnosis     | ICD-10-CM |
| S81.049D | Puncture wound with foreign body, unspecified knee, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S81.049S | Puncture wound with foreign body, unspecified knee, sequela                 | Diagnosis     | ICD-10-CM |
| S81.05   | Open bite of knee   | Diagnosis     | ICD-10-CM |
| S81.051  | Open bite, right knee   | Diagnosis     | ICD-10-CM |
| S81.051A | Open bite, right knee, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S81.051D | Open bite, right knee, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S81.051S | Open bite, right knee, sequela  | Diagnosis     | ICD-10-CM |
| S81.052  | Open bite, left knee  | Diagnosis     | ICD-10-CM |
| S81.052A | Open bite, left knee, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S81.052D | Open bite, left knee, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S81.052S | Open bite, left knee, sequela   | Diagnosis     | ICD-10-CM |
| S81.059  | Open bite, unspecified knee   | Diagnosis     | ICD-10-CM |
| S81.059A | Open bite, unspecified knee, initial encounter                              | Diagnosis     | ICD-10-CM |
| S81.059D | Open bite, unspecified knee, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S81.059S | Open bite, unspecified knee, sequela  | Diagnosis     | ICD-10-CM |
| S81.8    | Open wound of lower leg   | Diagnosis     | ICD-10-CM |
| S81.80   | Unspecified open wound of lower leg   | Diagnosis     | ICD-10-CM |
| S81.801  | Unspecified open wound, right lower leg                                     | Diagnosis     | ICD-10-CM |
| S81.801A | Unspecified open wound, right lower leg, initial encounter                  | Diagnosis     | ICD-10-CM |
| S81.801D | Unspecified open wound, right lower leg, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S81.801S | Unspecified open wound, right lower leg, sequela                            | Diagnosis     | ICD-10-CM |
| S81.802  | Unspecified open wound, left lower leg                                      | Diagnosis     | ICD-10-CM |
| S81.802A | Unspecified open wound, left lower leg, initial encounter                   | Diagnosis     | ICD-10-CM |
| S81.802D | Unspecified open wound, left lower leg, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S81.802S | Unspecified open wound, left lower leg, sequela                             | Diagnosis     | ICD-10-CM |
| S81.809  | Unspecified open wound, unspecified lower leg                               | Diagnosis     | ICD-10-CM |
| S81.809A | Unspecified open wound, unspecified lower leg, initial encounter            | Diagnosis     | ICD-10-CM |
| S81.809D | Unspecified open wound, unspecified lower leg, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S81.809S | Unspecified open wound, unspecified lower leg, sequela                      | Diagnosis     | ICD-10-CM |
| S81.81   | Laceration without foreign body of lower leg                                | Diagnosis     | ICD-10-CM |
| S81.811  | Laceration without foreign body, right lower leg                            | Diagnosis     | ICD-10-CM |
| S81.811A | Laceration without foreign body, right lower leg, initial encounter         | Diagnosis     | ICD-10-CM |
| S81.811D | Laceration without foreign body, right lower leg, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S81.811S | Laceration without foreign body, right lower leg, sequela                   | Diagnosis     | ICD-10-CM |
| S81.812  | Laceration without foreign body, left lower leg                             | Diagnosis     | ICD-10-CM |
| S81.812A | Laceration without foreign body, left lower leg, initial encounter          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S81.812D | Laceration without foreign body, left lower leg, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S81.812S | Laceration without foreign body, left lower leg, sequela                         | Diagnosis     | ICD-10-CM |
| S81.819  | Laceration without foreign body, unspecified lower leg                           | Diagnosis     | ICD-10-CM |
| S81.819A | Laceration without foreign body, unspecified lower leg, initial encounter        | Diagnosis     | ICD-10-CM |
| S81.819D | Laceration without foreign body, unspecified lower leg, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S81.819S | Laceration without foreign body, unspecified lower leg, sequela                  | Diagnosis     | ICD-10-CM |
| S81.82   | Laceration with foreign body of lower leg  | Diagnosis     | ICD-10-CM |
| S81.821  | Laceration with foreign body, right lower leg                                    | Diagnosis     | ICD-10-CM |
| S81.821A | Laceration with foreign body, right lower leg, initial encounter                 | Diagnosis     | ICD-10-CM |
| S81.821D | Laceration with foreign body, right lower leg, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S81.821S | Laceration with foreign body, right lower leg, sequela                           | Diagnosis     | ICD-10-CM |
| S81.822  | Laceration with foreign body, left lower leg                                     | Diagnosis     | ICD-10-CM |
| S81.822A | Laceration with foreign body, left lower leg, initial encounter                  | Diagnosis     | ICD-10-CM |
| S81.822D | Laceration with foreign body, left lower leg, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S81.822S | Laceration with foreign body, left lower leg, sequela                            | Diagnosis     | ICD-10-CM |
| S81.829  | Laceration with foreign body, unspecified lower leg                              | Diagnosis     | ICD-10-CM |
| S81.829A | Laceration with foreign body, unspecified lower leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S81.829D | Laceration with foreign body, unspecified lower leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S81.829S | Laceration with foreign body, unspecified lower leg, sequela                     | Diagnosis     | ICD-10-CM |
| S81.83   | Puncture wound without foreign body of lower leg                                 | Diagnosis     | ICD-10-CM |
| S81.831  | Puncture wound without foreign body, right lower leg                             | Diagnosis     | ICD-10-CM |
| S81.831A | Puncture wound without foreign body, right lower leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S81.831D | Puncture wound without foreign body, right lower leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S81.831S | Puncture wound without foreign body, right lower leg, sequela                    | Diagnosis     | ICD-10-CM |
| S81.832  | Puncture wound without foreign body, left lower leg                              | Diagnosis     | ICD-10-CM |
| S81.832A | Puncture wound without foreign body, left lower leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S81.832D | Puncture wound without foreign body, left lower leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S81.832S | Puncture wound without foreign body, left lower leg, sequela                     | Diagnosis     | ICD-10-CM |
| S81.839  | Puncture wound without foreign body, unspecified lower leg                       | Diagnosis     | ICD-10-CM |
| S81.839A | Puncture wound without foreign body, unspecified lower leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S81.839D | Puncture wound without foreign body, unspecified lower leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S81.839S | Puncture wound without foreign body, unspecified lower leg, sequela              | Diagnosis     | ICD-10-CM |
| S81.84   | Puncture wound with foreign body of lower leg                                    | Diagnosis     | ICD-10-CM |
| S81.841  | Puncture wound with foreign body, right lower leg                                | Diagnosis     | ICD-10-CM |
| S81.841A | Puncture wound with foreign body, right lower leg, initial encounter             | Diagnosis     | ICD-10-CM |
| S81.841D | Puncture wound with foreign body, right lower leg, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S81.841S | Puncture wound with foreign body, right lower leg, sequela                       | Diagnosis     | ICD-10-CM |
| S81.842  | Puncture wound with foreign body, left lower leg                                 | Diagnosis     | ICD-10-CM |
| S81.842A | Puncture wound with foreign body, left lower leg, initial encounter              | Diagnosis     | ICD-10-CM |
| S81.842D | Puncture wound with foreign body, left lower leg, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S81.842S | Puncture wound with foreign body, left lower leg, sequela                        | Diagnosis     | ICD-10-CM |
| S81.849  | Puncture wound with foreign body, unspecified lower leg                          | Diagnosis     | ICD-10-CM |
| S81.849A | Puncture wound with foreign body, unspecified lower leg, initial encounter       | Diagnosis     | ICD-10-CM |
| S81.849D | Puncture wound with foreign body, unspecified lower leg, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S81.849S | Puncture wound with foreign body, unspecified lower leg, sequela                 | Diagnosis     | ICD-10-CM |
| S81.85   | Open bite of lower leg   | Diagnosis     | ICD-10-CM |
| S81.851  | Open bite, right lower leg   | Diagnosis     | ICD-10-CM |
| S81.851A | Open bite, right lower leg, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S81.851D | Open bite, right lower leg, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S81.851S | Open bite, right lower leg, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S81.852  | Open bite, left lower leg   | Diagnosis     | ICD-10-CM |
| S81.852A | Open bite, left lower leg, initial encounter  | Diagnosis     | ICD-10-CM |
| S81.852D | Open bite, left lower leg, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S81.852S | Open bite, left lower leg, sequela  | Diagnosis     | ICD-10-CM |
| S81.859  | Open bite, unspecified lower leg  | Diagnosis     | ICD-10-CM |
| S81.859A | Open bite, unspecified lower leg, initial encounter   | Diagnosis     | ICD-10-CM |
| S81.859D | Open bite, unspecified lower leg, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S81.859S | Open bite, unspecified lower leg, sequela   | Diagnosis     | ICD-10-CM |
| S82      | Fracture of lower leg, including ankle  | Diagnosis     | ICD-10-CM |
| S82.0    | Fracture of patella   | Diagnosis     | ICD-10-CM |
| S82.00   | Unspecified fracture of patella   | Diagnosis     | ICD-10-CM |
| S82.001  | Unspecified fracture of right patella   | Diagnosis     | ICD-10-CM |
| S82.001A | Unspecified fracture of right patella, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.001B | Unspecified fracture of right patella, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.001C | Unspecified fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.001D | Unspecified fracture of right patella, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.001E | Unspecified fracture of right patella, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.001F | Unspecified fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.001G | Unspecified fracture of right patella, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.001H | Unspecified fracture of right patella, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.001J | Unspecified fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.001K | Unspecified fracture of right patella, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.001M | Unspecified fracture of right patella, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.001N | Unspecified fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.001P | Unspecified fracture of right patella, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.001Q | Unspecified fracture of right patella, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.001R | Unspecified fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.001S | Unspecified fracture of right patella, sequela  | Diagnosis     | ICD-10-CM |
| S82.002  | Unspecified fracture of left patella  | Diagnosis     | ICD-10-CM |
| S82.002A | Unspecified fracture of left patella, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.002B | Unspecified fracture of left patella, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.002C | Unspecified fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.002D | Unspecified fracture of left patella, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S82.002E | Unspecified fracture of left patella, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S82.002F | Unspecified fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.002G | Unspecified fracture of left patella, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S82.002H | Unspecified fracture of left patella, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S82.002J | Unspecified fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.002K | Unspecified fracture of left patella, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.002M | Unspecified fracture of left patella, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.002N | Unspecified fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.002P | Unspecified fracture of left patella, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.002Q | Unspecified fracture of left patella, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.002R | Unspecified fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.002S | Unspecified fracture of left patella, sequela   | Diagnosis     | ICD-10-CM |
| S82.009  | Unspecified fracture of unspecified patella   | Diagnosis     | ICD-10-CM |
| S82.009A | Unspecified fracture of unspecified patella, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.009B | Unspecified fracture of unspecified patella, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.009C | Unspecified fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.009D | Unspecified fracture of unspecified patella, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.009E | Unspecified fracture of unspecified patella, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.009F | Unspecified fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.009G | Unspecified fracture of unspecified patella, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.009H | Unspecified fracture of unspecified patella, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.009J | Unspecified fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.009K | Unspecified fracture of unspecified patella, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.009M | Unspecified fracture of unspecified patella, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.009N | Unspecified fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.009P | Unspecified fracture of unspecified patella, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.009Q | Unspecified fracture of unspecified patella, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.009R | Unspecified fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.009S | Unspecified fracture of unspecified patella, sequela  | Diagnosis     | ICD-10-CM |
| S82.01   | Osteochondral fracture of patella   | Diagnosis     | ICD-10-CM |
| S82.011  | Displaced osteochondral fracture of right patella   | Diagnosis     | ICD-10-CM |
| S82.011A | Displaced osteochondral fracture of right patella, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.011B | Displaced osteochondral fracture of right patella, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.011C | Displaced osteochondral fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.011D | Displaced osteochondral fracture of right patella, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.011E | Displaced osteochondral fracture of right patella, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.011F | Displaced osteochondral fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.011G | Displaced osteochondral fracture of right patella, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.011H | Displaced osteochondral fracture of right patella, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.011J | Displaced osteochondral fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.011K | Displaced osteochondral fracture of right patella, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.011M | Displaced osteochondral fracture of right patella, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.011N | Displaced osteochondral fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.011P | Displaced osteochondral fracture of right patella, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.011Q | Displaced osteochondral fracture of right patella, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.011R | Displaced osteochondral fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.011S | Displaced osteochondral fracture of right patella, sequela  | Diagnosis     | ICD-10-CM |
| S82.012  | Displaced osteochondral fracture of left patella  | Diagnosis     | ICD-10-CM |
| S82.012A | Displaced osteochondral fracture of left patella, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.012B | Displaced osteochondral fracture of left patella, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.012C | Displaced osteochondral fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.012D | Displaced osteochondral fracture of left patella, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S82.012E | Displaced osteochondral fracture of left patella, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S82.012F | Displaced osteochondral fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.012G | Displaced osteochondral fracture of left patella, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S82.012H | Displaced osteochondral fracture of left patella, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S82.012J | Displaced osteochondral fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.012K | Displaced osteochondral fracture of left patella, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.012M | Displaced osteochondral fracture of left patella, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.012N | Displaced osteochondral fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.012P | Displaced osteochondral fracture of left patella, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.012Q | Displaced osteochondral fracture of left patella, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.012R | Displaced osteochondral fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.012S | Displaced osteochondral fracture of left patella, sequela   | Diagnosis     | ICD-10-CM |
| S82.013  | Displaced osteochondral fracture of unspecified patella   | Diagnosis     | ICD-10-CM |
| S82.013A | Displaced osteochondral fracture of unspecified patella, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.013B | Displaced osteochondral fracture of unspecified patella, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.013C | Displaced osteochondral fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.013D | Displaced osteochondral fracture of unspecified patella, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.013E | Displaced osteochondral fracture of unspecified patella, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.013F | Displaced osteochondral fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.013G | Displaced osteochondral fracture of unspecified patella, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.013H | Displaced osteochondral fracture of unspecified patella, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.013J | Displaced osteochondral fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.013K | Displaced osteochondral fracture of unspecified patella, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.013M | Displaced osteochondral fracture of unspecified patella, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.013N | Displaced osteochondral fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.013P | Displaced osteochondral fracture of unspecified patella, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.013Q | Displaced osteochondral fracture of unspecified patella, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.013R | Displaced osteochondral fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.013S | Displaced osteochondral fracture of unspecified patella, sequela  | Diagnosis     | ICD-10-CM |
| S82.014  | Nondisplaced osteochondral fracture of right patella  | Diagnosis     | ICD-10-CM |
| S82.014A | Nondisplaced osteochondral fracture of right patella, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.014B | Nondisplaced osteochondral fracture of right patella, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.014C | Nondisplaced osteochondral fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.014D | Nondisplaced osteochondral fracture of right patella, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.014E | Nondisplaced osteochondral fracture of right patella, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.014F | Nondisplaced osteochondral fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.014G | Nondisplaced osteochondral fracture of right patella, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.014H | Nondisplaced osteochondral fracture of right patella, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.014J | Nondisplaced osteochondral fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.014K | Nondisplaced osteochondral fracture of right patella, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.014M | Nondisplaced osteochondral fracture of right patella, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.014N | Nondisplaced osteochondral fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.014P | Nondisplaced osteochondral fracture of right patella, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.014Q | Nondisplaced osteochondral fracture of right patella, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.014R | Nondisplaced osteochondral fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.014S | Nondisplaced osteochondral fracture of right patella, sequela  | Diagnosis     | ICD-10-CM |
| S82.015  | Nondisplaced osteochondral fracture of left patella  | Diagnosis     | ICD-10-CM |
| S82.015A | Nondisplaced osteochondral fracture of left patella, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.015B | Nondisplaced osteochondral fracture of left patella, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.015C | Nondisplaced osteochondral fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.015D | Nondisplaced osteochondral fracture of left patella, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S82.015E | Nondisplaced osteochondral fracture of left patella, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S82.015F | Nondisplaced osteochondral fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.015G | Nondisplaced osteochondral fracture of left patella, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S82.015H | Nondisplaced osteochondral fracture of left patella, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S82.015J | Nondisplaced osteochondral fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.015K | Nondisplaced osteochondral fracture of left patella, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S82.015M | Nondisplaced osteochondral fracture of left patella, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S82.015N | Nondisplaced osteochondral fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.015P | Nondisplaced osteochondral fracture of left patella, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.015Q | Nondisplaced osteochondral fracture of left patella, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.015R | Nondisplaced osteochondral fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.015S | Nondisplaced osteochondral fracture of left patella, sequela   | Diagnosis     | ICD-10-CM |
| S82.016  | Nondisplaced osteochondral fracture of unspecified patella   | Diagnosis     | ICD-10-CM |
| S82.016A | Nondisplaced osteochondral fracture of unspecified patella, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.016B | Nondisplaced osteochondral fracture of unspecified patella, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.016C | Nondisplaced osteochondral fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.016D | Nondisplaced osteochondral fracture of unspecified patella, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.016E | Nondisplaced osteochondral fracture of unspecified patella, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.016F | Nondisplaced osteochondral fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.016G | Nondisplaced osteochondral fracture of unspecified patella, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.016H | Nondisplaced osteochondral fracture of unspecified patella, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.016J | Nondisplaced osteochondral fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.016K | Nondisplaced osteochondral fracture of unspecified patella, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.016M | Nondisplaced osteochondral fracture of unspecified patella, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.016N | Nondisplaced osteochondral fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.016P | Nondisplaced osteochondral fracture of unspecified patella, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.016Q | Nondisplaced osteochondral fracture of unspecified patella, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.016R | Nondisplaced osteochondral fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.016S | Nondisplaced osteochondral fracture of unspecified patella, sequela  | Diagnosis     | ICD-10-CM |
| S82.02   | Longitudinal fracture of patella   | Diagnosis     | ICD-10-CM |
| S82.021  | Displaced longitudinal fracture of right patella   | Diagnosis     | ICD-10-CM |
| S82.021A | Displaced longitudinal fracture of right patella, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.021B | Displaced longitudinal fracture of right patella, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S82.021C | Displaced longitudinal fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                                   | Diagnosis     | ICD-10-CM |
| S82.021D | Displaced longitudinal fracture of right patella, subsequent encounter for closed fracture with routine healing                                  | Diagnosis     | ICD-10-CM |
| S82.021E | Displaced longitudinal fracture of right patella, subsequent encounter for open fracture type I or II with routine healing                       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.021F | Displaced longitudinal fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.021G | Displaced longitudinal fracture of right patella, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.021H | Displaced longitudinal fracture of right patella, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.021J | Displaced longitudinal fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.021K | Displaced longitudinal fracture of right patella, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.021M | Displaced longitudinal fracture of right patella, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.021N | Displaced longitudinal fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.021P | Displaced longitudinal fracture of right patella, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.021Q | Displaced longitudinal fracture of right patella, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.021R | Displaced longitudinal fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.021S | Displaced longitudinal fracture of right patella, sequela  | Diagnosis     | ICD-10-CM |
| S82.022  | Displaced longitudinal fracture of left patella  | Diagnosis     | ICD-10-CM |
| S82.022A | Displaced longitudinal fracture of left patella, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.022B | Displaced longitudinal fracture of left patella, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.022C | Displaced longitudinal fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.022D | Displaced longitudinal fracture of left patella, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S82.022E | Displaced longitudinal fracture of left patella, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S82.022F | Displaced longitudinal fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.022G | Displaced longitudinal fracture of left patella, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S82.022H | Displaced longitudinal fracture of left patella, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S82.022J | Displaced longitudinal fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.022K | Displaced longitudinal fracture of left patella, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S82.022M | Displaced longitudinal fracture of left patella, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S82.022N | Displaced longitudinal fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S82.022P | Displaced longitudinal fracture of left patella, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S82.022Q | Displaced longitudinal fracture of left patella, subsequent encounter for open fracture type I or II with malunion                     | Diagnosis     | ICD-10-CM |
| S82.022R | Displaced longitudinal fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.022S | Displaced longitudinal fracture of left patella, sequela   | Diagnosis     | ICD-10-CM |
| S82.023  | Displaced longitudinal fracture of unspecified patella   | Diagnosis     | ICD-10-CM |
| S82.023A | Displaced longitudinal fracture of unspecified patella, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.023B | Displaced longitudinal fracture of unspecified patella, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.023C | Displaced longitudinal fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.023D | Displaced longitudinal fracture of unspecified patella, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.023E | Displaced longitudinal fracture of unspecified patella, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.023F | Displaced longitudinal fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.023G | Displaced longitudinal fracture of unspecified patella, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.023H | Displaced longitudinal fracture of unspecified patella, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.023J | Displaced longitudinal fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.023K | Displaced longitudinal fracture of unspecified patella, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.023M | Displaced longitudinal fracture of unspecified patella, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.023N | Displaced longitudinal fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.023P | Displaced longitudinal fracture of unspecified patella, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.023Q | Displaced longitudinal fracture of unspecified patella, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.023R | Displaced longitudinal fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.023S | Displaced longitudinal fracture of unspecified patella, sequela  | Diagnosis     | ICD-10-CM |
| S82.024  | Nondisplaced longitudinal fracture of right patella  | Diagnosis     | ICD-10-CM |
| S82.024A | Nondisplaced longitudinal fracture of right patella, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.024B | Nondisplaced longitudinal fracture of right patella, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.024C | Nondisplaced longitudinal fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S82.024D | Nondisplaced longitudinal fracture of right patella, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S82.024E | Nondisplaced longitudinal fracture of right patella, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S82.024F | Nondisplaced longitudinal fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S82.024G | Nondisplaced longitudinal fracture of right patella, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S82.024H | Nondisplaced longitudinal fracture of right patella, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S82.024J | Nondisplaced longitudinal fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.024K | Nondisplaced longitudinal fracture of right patella, subsequent encounter for closed fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S82.024M | Nondisplaced longitudinal fracture of right patella, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S82.024N | Nondisplaced longitudinal fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion       | Diagnosis     | ICD-10-CM |
| S82.024P | Nondisplaced longitudinal fracture of right patella, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S82.024Q | Nondisplaced longitudinal fracture of right patella, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S82.024R | Nondisplaced longitudinal fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S82.024S | Nondisplaced longitudinal fracture of right patella, sequela   | Diagnosis     | ICD-10-CM |
| S82.025  | Nondisplaced longitudinal fracture of left patella   | Diagnosis     | ICD-10-CM |
| S82.025A | Nondisplaced longitudinal fracture of left patella, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.025B | Nondisplaced longitudinal fracture of left patella, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.025C | Nondisplaced longitudinal fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.025D | Nondisplaced longitudinal fracture of left patella, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.025E | Nondisplaced longitudinal fracture of left patella, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.025F | Nondisplaced longitudinal fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.025G | Nondisplaced longitudinal fracture of left patella, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.025H | Nondisplaced longitudinal fracture of left patella, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.025J | Nondisplaced longitudinal fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.025K | Nondisplaced longitudinal fracture of left patella, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.025M | Nondisplaced longitudinal fracture of left patella, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.025N | Nondisplaced longitudinal fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.025P | Nondisplaced longitudinal fracture of left patella, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.025Q | Nondisplaced longitudinal fracture of left patella, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.025R | Nondisplaced longitudinal fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.025S | Nondisplaced longitudinal fracture of left patella, sequela  | Diagnosis     | ICD-10-CM |
| S82.026  | Nondisplaced longitudinal fracture of unspecified patella  | Diagnosis     | ICD-10-CM |
| S82.026A | Nondisplaced longitudinal fracture of unspecified patella, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.026B | Nondisplaced longitudinal fracture of unspecified patella, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.026C | Nondisplaced longitudinal fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.026D | Nondisplaced longitudinal fracture of unspecified patella, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.026E | Nondisplaced longitudinal fracture of unspecified patella, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.026F | Nondisplaced longitudinal fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.026G | Nondisplaced longitudinal fracture of unspecified patella, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.026H | Nondisplaced longitudinal fracture of unspecified patella, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.026J | Nondisplaced longitudinal fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.026K | Nondisplaced longitudinal fracture of unspecified patella, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.026M | Nondisplaced longitudinal fracture of unspecified patella, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.026N | Nondisplaced longitudinal fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.026P | Nondisplaced longitudinal fracture of unspecified patella, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.026Q | Nondisplaced longitudinal fracture of unspecified patella, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.026R | Nondisplaced longitudinal fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.026S | Nondisplaced longitudinal fracture of unspecified patella, sequela  | Diagnosis     | ICD-10-CM |
| S82.03   | Transverse fracture of patella  | Diagnosis     | ICD-10-CM |
| S82.031  | Displaced transverse fracture of right patella  | Diagnosis     | ICD-10-CM |
| S82.031A | Displaced transverse fracture of right patella, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.031B | Displaced transverse fracture of right patella, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.031C | Displaced transverse fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                                    | Diagnosis     | ICD-10-CM |
| S82.031D | Displaced transverse fracture of right patella, subsequent encounter for closed fracture with routine healing                                   | Diagnosis     | ICD-10-CM |
| S82.031E | Displaced transverse fracture of right patella, subsequent encounter for open fracture type I or II with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.031F | Displaced transverse fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing            | Diagnosis     | ICD-10-CM |
| S82.031G | Displaced transverse fracture of right patella, subsequent encounter for closed fracture with delayed healing                                   | Diagnosis     | ICD-10-CM |
| S82.031H | Displaced transverse fracture of right patella, subsequent encounter for open fracture type I or II with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.031J | Displaced transverse fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing            | Diagnosis     | ICD-10-CM |
| S82.031K | Displaced transverse fracture of right patella, subsequent encounter for closed fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S82.031M | Displaced transverse fracture of right patella, subsequent encounter for open fracture type I or II with nonunion                               | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.031N | Displaced transverse fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion       | Diagnosis     | ICD-10-CM |
| S82.031P | Displaced transverse fracture of right patella, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S82.031Q | Displaced transverse fracture of right patella, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S82.031R | Displaced transverse fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S82.031S | Displaced transverse fracture of right patella, sequela   | Diagnosis     | ICD-10-CM |
| S82.032  | Displaced transverse fracture of left patella   | Diagnosis     | ICD-10-CM |
| S82.032A | Displaced transverse fracture of left patella, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.032B | Displaced transverse fracture of left patella, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.032C | Displaced transverse fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.032D | Displaced transverse fracture of left patella, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.032E | Displaced transverse fracture of left patella, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.032F | Displaced transverse fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.032G | Displaced transverse fracture of left patella, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.032H | Displaced transverse fracture of left patella, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.032J | Displaced transverse fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.032K | Displaced transverse fracture of left patella, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.032M | Displaced transverse fracture of left patella, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.032N | Displaced transverse fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.032P | Displaced transverse fracture of left patella, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.032Q | Displaced transverse fracture of left patella, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.032R | Displaced transverse fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.032S | Displaced transverse fracture of left patella, sequela  | Diagnosis     | ICD-10-CM |
| S82.033  | Displaced transverse fracture of unspecified patella  | Diagnosis     | ICD-10-CM |
| S82.033A | Displaced transverse fracture of unspecified patella, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.033B | Displaced transverse fracture of unspecified patella, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |
| S82.033C | Displaced transverse fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                  | Diagnosis     | ICD-10-CM |
| S82.033D | Displaced transverse fracture of unspecified patella, subsequent encounter for closed fracture with routine healing                 | Diagnosis     | ICD-10-CM |
| S82.033E | Displaced transverse fracture of unspecified patella, subsequent encounter for open fracture type I or II with routine healing      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.033F | Displaced transverse fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.033G | Displaced transverse fracture of unspecified patella, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.033H | Displaced transverse fracture of unspecified patella, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.033J | Displaced transverse fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.033K | Displaced transverse fracture of unspecified patella, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.033M | Displaced transverse fracture of unspecified patella, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.033N | Displaced transverse fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.033P | Displaced transverse fracture of unspecified patella, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.033Q | Displaced transverse fracture of unspecified patella, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.033R | Displaced transverse fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.033S | Displaced transverse fracture of unspecified patella, sequela  | Diagnosis     | ICD-10-CM |
| S82.034  | Nondisplaced transverse fracture of right patella  | Diagnosis     | ICD-10-CM |
| S82.034A | Nondisplaced transverse fracture of right patella, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.034B | Nondisplaced transverse fracture of right patella, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.034C | Nondisplaced transverse fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S82.034D | Nondisplaced transverse fracture of right patella, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S82.034E | Nondisplaced transverse fracture of right patella, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S82.034F | Nondisplaced transverse fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S82.034G | Nondisplaced transverse fracture of right patella, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S82.034H | Nondisplaced transverse fracture of right patella, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S82.034J | Nondisplaced transverse fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S82.034K | Nondisplaced transverse fracture of right patella, subsequent encounter for closed fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S82.034M | Nondisplaced transverse fracture of right patella, subsequent encounter for open fracture type I or II with nonunion                       | Diagnosis     | ICD-10-CM |
| S82.034N | Nondisplaced transverse fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion           | Diagnosis     | ICD-10-CM |
| S82.034P | Nondisplaced transverse fracture of right patella, subsequent encounter for closed fracture with malunion                                  | Diagnosis     | ICD-10-CM |
| S82.034Q | Nondisplaced transverse fracture of right patella, subsequent encounter for open fracture type I or II with malunion                       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.034R | Nondisplaced transverse fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion              | Diagnosis     | ICD-10-CM |
| S82.034S | Nondisplaced transverse fracture of right patella, sequela  | Diagnosis     | ICD-10-CM |
| S82.035  | Nondisplaced transverse fracture of left patella  | Diagnosis     | ICD-10-CM |
| S82.035A | Nondisplaced transverse fracture of left patella, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.035B | Nondisplaced transverse fracture of left patella, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.035C | Nondisplaced transverse fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S82.035D | Nondisplaced transverse fracture of left patella, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S82.035E | Nondisplaced transverse fracture of left patella, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S82.035F | Nondisplaced transverse fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S82.035G | Nondisplaced transverse fracture of left patella, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S82.035H | Nondisplaced transverse fracture of left patella, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S82.035J | Nondisplaced transverse fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.035K | Nondisplaced transverse fracture of left patella, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.035M | Nondisplaced transverse fracture of left patella, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.035N | Nondisplaced transverse fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.035P | Nondisplaced transverse fracture of left patella, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.035Q | Nondisplaced transverse fracture of left patella, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.035R | Nondisplaced transverse fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.035S | Nondisplaced transverse fracture of left patella, sequela   | Diagnosis     | ICD-10-CM |
| S82.036  | Nondisplaced transverse fracture of unspecified patella   | Diagnosis     | ICD-10-CM |
| S82.036A | Nondisplaced transverse fracture of unspecified patella, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.036B | Nondisplaced transverse fracture of unspecified patella, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.036C | Nondisplaced transverse fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.036D | Nondisplaced transverse fracture of unspecified patella, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.036E | Nondisplaced transverse fracture of unspecified patella, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.036F | Nondisplaced transverse fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.036G | Nondisplaced transverse fracture of unspecified patella, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.036H | Nondisplaced transverse fracture of unspecified patella, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.036J | Nondisplaced transverse fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.036K | Nondisplaced transverse fracture of unspecified patella, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.036M | Nondisplaced transverse fracture of unspecified patella, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.036N | Nondisplaced transverse fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.036P | Nondisplaced transverse fracture of unspecified patella, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.036Q | Nondisplaced transverse fracture of unspecified patella, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.036R | Nondisplaced transverse fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.036S | Nondisplaced transverse fracture of unspecified patella, sequela  | Diagnosis     | ICD-10-CM |
| S82.04   | Comminuted fracture of patella  | Diagnosis     | ICD-10-CM |
| S82.041  | Displaced comminuted fracture of right patella  | Diagnosis     | ICD-10-CM |
| S82.041A | Displaced comminuted fracture of right patella, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.041B | Displaced comminuted fracture of right patella, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.041C | Displaced comminuted fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                                  | Diagnosis     | ICD-10-CM |
| S82.041D | Displaced comminuted fracture of right patella, subsequent encounter for closed fracture with routine healing                                 | Diagnosis     | ICD-10-CM |
| S82.041E | Displaced comminuted fracture of right patella, subsequent encounter for open fracture type I or II with routine healing                      | Diagnosis     | ICD-10-CM |
| S82.041F | Displaced comminuted fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing          | Diagnosis     | ICD-10-CM |
| S82.041G | Displaced comminuted fracture of right patella, subsequent encounter for closed fracture with delayed healing                                 | Diagnosis     | ICD-10-CM |
| S82.041H | Displaced comminuted fracture of right patella, subsequent encounter for open fracture type I or II with delayed healing                      | Diagnosis     | ICD-10-CM |
| S82.041J | Displaced comminuted fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing          | Diagnosis     | ICD-10-CM |
| S82.041K | Displaced comminuted fracture of right patella, subsequent encounter for closed fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S82.041M | Displaced comminuted fracture of right patella, subsequent encounter for open fracture type I or II with nonunion                             | Diagnosis     | ICD-10-CM |
| S82.041N | Displaced comminuted fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion                 | Diagnosis     | ICD-10-CM |
| S82.041P | Displaced comminuted fracture of right patella, subsequent encounter for closed fracture with malunion  | Diagnosis     | ICD-10-CM |
| S82.041Q | Displaced comminuted fracture of right patella, subsequent encounter for open fracture type I or II with malunion                             | Diagnosis     | ICD-10-CM |
| S82.041R | Displaced comminuted fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion                 | Diagnosis     | ICD-10-CM |
| S82.041S | Displaced comminuted fracture of right patella, sequela   | Diagnosis     | ICD-10-CM |
| S82.042  | Displaced comminuted fracture of left patella   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.042A | Displaced comminuted fracture of left patella, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.042B | Displaced comminuted fracture of left patella, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.042C | Displaced comminuted fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S82.042D | Displaced comminuted fracture of left patella, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S82.042E | Displaced comminuted fracture of left patella, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S82.042F | Displaced comminuted fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S82.042G | Displaced comminuted fracture of left patella, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S82.042H | Displaced comminuted fracture of left patella, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S82.042J | Displaced comminuted fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.042K | Displaced comminuted fracture of left patella, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.042M | Displaced comminuted fracture of left patella, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.042N | Displaced comminuted fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.042P | Displaced comminuted fracture of left patella, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.042Q | Displaced comminuted fracture of left patella, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.042R | Displaced comminuted fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.042S | Displaced comminuted fracture of left patella, sequela   | Diagnosis     | ICD-10-CM |
| S82.043  | Displaced comminuted fracture of unspecified patella   | Diagnosis     | ICD-10-CM |
| S82.043A | Displaced comminuted fracture of unspecified patella, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.043B | Displaced comminuted fracture of unspecified patella, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.043C | Displaced comminuted fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.043D | Displaced comminuted fracture of unspecified patella, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.043E | Displaced comminuted fracture of unspecified patella, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.043F | Displaced comminuted fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.043G | Displaced comminuted fracture of unspecified patella, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.043H | Displaced comminuted fracture of unspecified patella, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.043J | Displaced comminuted fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.043K | Displaced comminuted fracture of unspecified patella, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.043M | Displaced comminuted fracture of unspecified patella, subsequent encounter for open fracture type I or II with nonunion                 | Diagnosis     | ICD-10-CM |
| S82.043N | Displaced comminuted fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion     | Diagnosis     | ICD-10-CM |
| S82.043P | Displaced comminuted fracture of unspecified patella, subsequent encounter for closed fracture with malunion                            | Diagnosis     | ICD-10-CM |
| S82.043Q | Displaced comminuted fracture of unspecified patella, subsequent encounter for open fracture type I or II with malunion                 | Diagnosis     | ICD-10-CM |
| S82.043R | Displaced comminuted fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion     | Diagnosis     | ICD-10-CM |
| S82.043S | Displaced comminuted fracture of unspecified patella, sequela   | Diagnosis     | ICD-10-CM |
| S82.044  | Nondisplaced comminuted fracture of right patella   | Diagnosis     | ICD-10-CM |
| S82.044A | Nondisplaced comminuted fracture of right patella, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.044B | Nondisplaced comminuted fracture of right patella, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.044C | Nondisplaced comminuted fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.044D | Nondisplaced comminuted fracture of right patella, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.044E | Nondisplaced comminuted fracture of right patella, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.044F | Nondisplaced comminuted fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.044G | Nondisplaced comminuted fracture of right patella, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.044H | Nondisplaced comminuted fracture of right patella, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.044J | Nondisplaced comminuted fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.044K | Nondisplaced comminuted fracture of right patella, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.044M | Nondisplaced comminuted fracture of right patella, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.044N | Nondisplaced comminuted fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.044P | Nondisplaced comminuted fracture of right patella, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.044Q | Nondisplaced comminuted fracture of right patella, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.044R | Nondisplaced comminuted fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.044S | Nondisplaced comminuted fracture of right patella, sequela  | Diagnosis     | ICD-10-CM |
| S82.045  | Nondisplaced comminuted fracture of left patella  | Diagnosis     | ICD-10-CM |
| S82.045A | Nondisplaced comminuted fracture of left patella, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.045B | Nondisplaced comminuted fracture of left patella, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.045C | Nondisplaced comminuted fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.045D | Nondisplaced comminuted fracture of left patella, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.045E | Nondisplaced comminuted fracture of left patella, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S82.045F | Nondisplaced comminuted fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S82.045G | Nondisplaced comminuted fracture of left patella, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S82.045H | Nondisplaced comminuted fracture of left patella, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S82.045J | Nondisplaced comminuted fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.045K | Nondisplaced comminuted fracture of left patella, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.045M | Nondisplaced comminuted fracture of left patella, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.045N | Nondisplaced comminuted fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.045P | Nondisplaced comminuted fracture of left patella, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.045Q | Nondisplaced comminuted fracture of left patella, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.045R | Nondisplaced comminuted fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.045S | Nondisplaced comminuted fracture of left patella, sequela   | Diagnosis     | ICD-10-CM |
| S82.046  | Nondisplaced comminuted fracture of unspecified patella   | Diagnosis     | ICD-10-CM |
| S82.046A | Nondisplaced comminuted fracture of unspecified patella, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.046B | Nondisplaced comminuted fracture of unspecified patella, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.046C | Nondisplaced comminuted fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.046D | Nondisplaced comminuted fracture of unspecified patella, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.046E | Nondisplaced comminuted fracture of unspecified patella, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.046F | Nondisplaced comminuted fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.046G | Nondisplaced comminuted fracture of unspecified patella, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.046H | Nondisplaced comminuted fracture of unspecified patella, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.046J | Nondisplaced comminuted fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.046K | Nondisplaced comminuted fracture of unspecified patella, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.046M | Nondisplaced comminuted fracture of unspecified patella, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.046N | Nondisplaced comminuted fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.046P | Nondisplaced comminuted fracture of unspecified patella, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.046Q | Nondisplaced comminuted fracture of unspecified patella, subsequent encounter for open fracture type I or II with malunion             | Diagnosis     | ICD-10-CM |
| S82.046R | Nondisplaced comminuted fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion | Diagnosis     | ICD-10-CM |
| S82.046S | Nondisplaced comminuted fracture of unspecified patella, sequela   | Diagnosis     | ICD-10-CM |
| S82.09   | Other fracture of patella  | Diagnosis     | ICD-10-CM |
| S82.091  | Other fracture of right patella  | Diagnosis     | ICD-10-CM |
| S82.091A | Other fracture of right patella, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.091B | Other fracture of right patella, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.091C | Other fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC  | Diagnosis     | ICD-10-CM |
| S82.091D | Other fracture of right patella, subsequent encounter for closed fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S82.091E | Other fracture of right patella, subsequent encounter for open fracture type I or II with routine healing                              | Diagnosis     | ICD-10-CM |
| S82.091F | Other fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing                  | Diagnosis     | ICD-10-CM |
| S82.091G | Other fracture of right patella, subsequent encounter for closed fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S82.091H | Other fracture of right patella, subsequent encounter for open fracture type I or II with delayed healing                              | Diagnosis     | ICD-10-CM |
| S82.091J | Other fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing                  | Diagnosis     | ICD-10-CM |
| S82.091K | Other fracture of right patella, subsequent encounter for closed fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S82.091M | Other fracture of right patella, subsequent encounter for open fracture type I or II with nonunion                                     | Diagnosis     | ICD-10-CM |
| S82.091N | Other fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion                         | Diagnosis     | ICD-10-CM |
| S82.091P | Other fracture of right patella, subsequent encounter for closed fracture with malunion  | Diagnosis     | ICD-10-CM |
| S82.091Q | Other fracture of right patella, subsequent encounter for open fracture type I or II with malunion                                     | Diagnosis     | ICD-10-CM |
| S82.091R | Other fracture of right patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion                         | Diagnosis     | ICD-10-CM |
| S82.091S | Other fracture of right patella, sequela   | Diagnosis     | ICD-10-CM |
| S82.092  | Other fracture of left patella   | Diagnosis     | ICD-10-CM |
| S82.092A | Other fracture of left patella, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.092B | Other fracture of left patella, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S82.092C | Other fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC   | Diagnosis     | ICD-10-CM |
| S82.092D | Other fracture of left patella, subsequent encounter for closed fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S82.092E | Other fracture of left patella, subsequent encounter for open fracture type I or II with routine healing                               | Diagnosis     | ICD-10-CM |
| S82.092F | Other fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing                   | Diagnosis     | ICD-10-CM |
| S82.092G | Other fracture of left patella, subsequent encounter for closed fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.092H | Other fracture of left patella, subsequent encounter for open fracture type I or II with delayed healing                               | Diagnosis     | ICD-10-CM |
| S82.092J | Other fracture of left patella, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing                   | Diagnosis     | ICD-10-CM |
| S82.092K | Other fracture of left patella, subsequent encounter for closed fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S82.092M | Other fracture of left patella, subsequent encounter for open fracture type I or II with nonunion                                      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.092N | Other fracture of left patella, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion                | Diagnosis     | ICD-10-CM |
| S82.092P | Other fracture of left patella, subsequent encounter for closed fracture with malunion                                     | Diagnosis     | ICD-10-CM |
| S82.092Q | Other fracture of left patella, subsequent encounter for open fracture type I or II with malunion                          | Diagnosis     | ICD-10-CM |
| S82.092R | Other fracture of left patella, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion                | Diagnosis     | ICD-10-CM |
| S82.092S | Other fracture of left patella, sequela  | Diagnosis     | ICD-10-CM |
| S82.099  | Other fracture of unspecified patella  | Diagnosis     | ICD-10-CM |
| S82.099A | Other fracture of unspecified patella, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.099B | Other fracture of unspecified patella, initial encounter for open fracture type I or II                                    | Diagnosis     | ICD-10-CM |
| S82.099C | Other fracture of unspecified patella, initial encounter for open fracture type IIIA, IIB, or IIC                          | Diagnosis     | ICD-10-CM |
| S82.099D | Other fracture of unspecified patella, subsequent encounter for closed fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S82.099E | Other fracture of unspecified patella, subsequent encounter for open fracture type I or II with routine healing            | Diagnosis     | ICD-10-CM |
| S82.099F | Other fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.099G | Other fracture of unspecified patella, subsequent encounter for closed fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S82.099H | Other fracture of unspecified patella, subsequent encounter for open fracture type I or II with delayed healing            | Diagnosis     | ICD-10-CM |
| S82.099J | Other fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.099K | Other fracture of unspecified patella, subsequent encounter for closed fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S82.099M | Other fracture of unspecified patella, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S82.099N | Other fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion         | Diagnosis     | ICD-10-CM |
| S82.099P | Other fracture of unspecified patella, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S82.099Q | Other fracture of unspecified patella, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S82.099R | Other fracture of unspecified patella, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion         | Diagnosis     | ICD-10-CM |
| S82.099S | Other fracture of unspecified patella, sequela   | Diagnosis     | ICD-10-CM |
| S82.1    | Fracture of upper end of tibia   | Diagnosis     | ICD-10-CM |
| S82.10   | Unspecified fracture of upper end of tibia   | Diagnosis     | ICD-10-CM |
| S82.101  | Unspecified fracture of upper end of right tibia   | Diagnosis     | ICD-10-CM |
| S82.101A | Unspecified fracture of upper end of right tibia, initial encounter for closed fracture                                    | Diagnosis     | ICD-10-CM |
| S82.101B | Unspecified fracture of upper end of right tibia, initial encounter for open fracture type I or II                         | Diagnosis     | ICD-10-CM |
| S82.101C | Unspecified fracture of upper end of right tibia, initial encounter for open fracture type IIIA, IIB, or IIC               | Diagnosis     | ICD-10-CM |
| S82.101D | Unspecified fracture of upper end of right tibia, subsequent encounter for closed fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S82.101E | Unspecified fracture of upper end of right tibia, subsequent encounter for open fracture type I or II with routine healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.101F | Unspecified fracture of upper end of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.101G | Unspecified fracture of upper end of right tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.101H | Unspecified fracture of upper end of right tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.101J | Unspecified fracture of upper end of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.101K | Unspecified fracture of upper end of right tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.101M | Unspecified fracture of upper end of right tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.101N | Unspecified fracture of upper end of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.101P | Unspecified fracture of upper end of right tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.101Q | Unspecified fracture of upper end of right tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.101R | Unspecified fracture of upper end of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.101S | Unspecified fracture of upper end of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.102  | Unspecified fracture of upper end of left tibia  | Diagnosis     | ICD-10-CM |
| S82.102A | Unspecified fracture of upper end of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.102B | Unspecified fracture of upper end of left tibia, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.102C | Unspecified fracture of upper end of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.102D | Unspecified fracture of upper end of left tibia, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S82.102E | Unspecified fracture of upper end of left tibia, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S82.102F | Unspecified fracture of upper end of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.102G | Unspecified fracture of upper end of left tibia, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S82.102H | Unspecified fracture of upper end of left tibia, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S82.102J | Unspecified fracture of upper end of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.102K | Unspecified fracture of upper end of left tibia, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S82.102M | Unspecified fracture of upper end of left tibia, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S82.102N | Unspecified fracture of upper end of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S82.102P | Unspecified fracture of upper end of left tibia, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S82.102Q | Unspecified fracture of upper end of left tibia, subsequent encounter for open fracture type I or II with malunion                     | Diagnosis     | ICD-10-CM |
| S82.102R | Unspecified fracture of upper end of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.102S | Unspecified fracture of upper end of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.109  | Unspecified fracture of upper end of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S82.109A | Unspecified fracture of upper end of unspecified tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.109B | Unspecified fracture of upper end of unspecified tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.109C | Unspecified fracture of upper end of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.109D | Unspecified fracture of upper end of unspecified tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.109E | Unspecified fracture of upper end of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.109F | Unspecified fracture of upper end of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.109G | Unspecified fracture of upper end of unspecified tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.109H | Unspecified fracture of upper end of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.109J | Unspecified fracture of upper end of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.109K | Unspecified fracture of upper end of unspecified tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.109M | Unspecified fracture of upper end of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.109N | Unspecified fracture of upper end of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.109P | Unspecified fracture of upper end of unspecified tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.109Q | Unspecified fracture of upper end of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.109R | Unspecified fracture of upper end of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.109S | Unspecified fracture of upper end of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.11   | Fracture of tibial spine   | Diagnosis     | ICD-10-CM |
| S82.111  | Displaced fracture of right tibial spine   | Diagnosis     | ICD-10-CM |
| S82.111A | Displaced fracture of right tibial spine, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.111B | Displaced fracture of right tibial spine, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S82.111C | Displaced fracture of right tibial spine, initial encounter for open fracture type IIIA, IIIB, or IIIC                                       | Diagnosis     | ICD-10-CM |
| S82.111D | Displaced fracture of right tibial spine, subsequent encounter for closed fracture with routine healing                                      | Diagnosis     | ICD-10-CM |
| S82.111E | Displaced fracture of right tibial spine, subsequent encounter for open fracture type I or II with routine healing                           | Diagnosis     | ICD-10-CM |
| S82.111F | Displaced fracture of right tibial spine, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing               | Diagnosis     | ICD-10-CM |
| S82.111G | Displaced fracture of right tibial spine, subsequent encounter for closed fracture with delayed healing                                      | Diagnosis     | ICD-10-CM |
| S82.111H | Displaced fracture of right tibial spine, subsequent encounter for open fracture type I or II with delayed healing                           | Diagnosis     | ICD-10-CM |
| S82.111J | Displaced fracture of right tibial spine, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.111K | Displaced fracture of right tibial spine, subsequent encounter for closed fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S82.111M | Displaced fracture of right tibial spine, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S82.111N | Displaced fracture of right tibial spine, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion       | Diagnosis     | ICD-10-CM |
| S82.111P | Displaced fracture of right tibial spine, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S82.111Q | Displaced fracture of right tibial spine, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S82.111R | Displaced fracture of right tibial spine, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S82.111S | Displaced fracture of right tibial spine, sequela   | Diagnosis     | ICD-10-CM |
| S82.112  | Displaced fracture of left tibial spine   | Diagnosis     | ICD-10-CM |
| S82.112A | Displaced fracture of left tibial spine, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.112B | Displaced fracture of left tibial spine, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.112C | Displaced fracture of left tibial spine, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.112D | Displaced fracture of left tibial spine, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.112E | Displaced fracture of left tibial spine, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.112F | Displaced fracture of left tibial spine, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.112G | Displaced fracture of left tibial spine, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.112H | Displaced fracture of left tibial spine, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.112J | Displaced fracture of left tibial spine, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.112K | Displaced fracture of left tibial spine, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.112M | Displaced fracture of left tibial spine, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.112N | Displaced fracture of left tibial spine, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.112P | Displaced fracture of left tibial spine, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.112Q | Displaced fracture of left tibial spine, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.112R | Displaced fracture of left tibial spine, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.112S | Displaced fracture of left tibial spine, sequela  | Diagnosis     | ICD-10-CM |
| S82.113  | Displaced fracture of unspecified tibial spine  | Diagnosis     | ICD-10-CM |
| S82.113A | Displaced fracture of unspecified tibial spine, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.113B | Displaced fracture of unspecified tibial spine, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |
| S82.113C | Displaced fracture of unspecified tibial spine, initial encounter for open fracture type IIIA, IIIB, or IIIC                  | Diagnosis     | ICD-10-CM |
| S82.113D | Displaced fracture of unspecified tibial spine, subsequent encounter for closed fracture with routine healing                 | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.113E | Displaced fracture of unspecified tibial spine, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.113F | Displaced fracture of unspecified tibial spine, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.113G | Displaced fracture of unspecified tibial spine, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.113H | Displaced fracture of unspecified tibial spine, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.113J | Displaced fracture of unspecified tibial spine, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.113K | Displaced fracture of unspecified tibial spine, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.113M | Displaced fracture of unspecified tibial spine, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.113N | Displaced fracture of unspecified tibial spine, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.113P | Displaced fracture of unspecified tibial spine, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.113Q | Displaced fracture of unspecified tibial spine, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.113R | Displaced fracture of unspecified tibial spine, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.113S | Displaced fracture of unspecified tibial spine, sequela  | Diagnosis     | ICD-10-CM |
| S82.114  | Nondisplaced fracture of right tibial spine  | Diagnosis     | ICD-10-CM |
| S82.114A | Nondisplaced fracture of right tibial spine, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.114B | Nondisplaced fracture of right tibial spine, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.114C | Nondisplaced fracture of right tibial spine, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S82.114D | Nondisplaced fracture of right tibial spine, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S82.114E | Nondisplaced fracture of right tibial spine, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S82.114F | Nondisplaced fracture of right tibial spine, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S82.114G | Nondisplaced fracture of right tibial spine, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S82.114H | Nondisplaced fracture of right tibial spine, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S82.114J | Nondisplaced fracture of right tibial spine, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S82.114K | Nondisplaced fracture of right tibial spine, subsequent encounter for closed fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S82.114M | Nondisplaced fracture of right tibial spine, subsequent encounter for open fracture type I or II with nonunion                       | Diagnosis     | ICD-10-CM |
| S82.114N | Nondisplaced fracture of right tibial spine, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion           | Diagnosis     | ICD-10-CM |
| S82.114P | Nondisplaced fracture of right tibial spine, subsequent encounter for closed fracture with malunion                                  | Diagnosis     | ICD-10-CM |
| S82.114Q | Nondisplaced fracture of right tibial spine, subsequent encounter for open fracture type I or II with malunion                       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.114R | Nondisplaced fracture of right tibial spine, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion              | Diagnosis     | ICD-10-CM |
| S82.114S | Nondisplaced fracture of right tibial spine, sequela  | Diagnosis     | ICD-10-CM |
| S82.115  | Nondisplaced fracture of left tibial spine  | Diagnosis     | ICD-10-CM |
| S82.115A | Nondisplaced fracture of left tibial spine, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.115B | Nondisplaced fracture of left tibial spine, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.115C | Nondisplaced fracture of left tibial spine, initial encounter for open fracture type IIIA, IIB, or IIC                                | Diagnosis     | ICD-10-CM |
| S82.115D | Nondisplaced fracture of left tibial spine, subsequent encounter for closed fracture with routine healing                             | Diagnosis     | ICD-10-CM |
| S82.115E | Nondisplaced fracture of left tibial spine, subsequent encounter for open fracture type I or II with routine healing                  | Diagnosis     | ICD-10-CM |
| S82.115F | Nondisplaced fracture of left tibial spine, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing        | Diagnosis     | ICD-10-CM |
| S82.115G | Nondisplaced fracture of left tibial spine, subsequent encounter for closed fracture with delayed healing                             | Diagnosis     | ICD-10-CM |
| S82.115H | Nondisplaced fracture of left tibial spine, subsequent encounter for open fracture type I or II with delayed healing                  | Diagnosis     | ICD-10-CM |
| S82.115J | Nondisplaced fracture of left tibial spine, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.115K | Nondisplaced fracture of left tibial spine, subsequent encounter for closed fracture with nonunion                                    | Diagnosis     | ICD-10-CM |
| S82.115M | Nondisplaced fracture of left tibial spine, subsequent encounter for open fracture type I or II with nonunion                         | Diagnosis     | ICD-10-CM |
| S82.115N | Nondisplaced fracture of left tibial spine, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.115P | Nondisplaced fracture of left tibial spine, subsequent encounter for closed fracture with malunion                                    | Diagnosis     | ICD-10-CM |
| S82.115Q | Nondisplaced fracture of left tibial spine, subsequent encounter for open fracture type I or II with malunion                         | Diagnosis     | ICD-10-CM |
| S82.115R | Nondisplaced fracture of left tibial spine, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.115S | Nondisplaced fracture of left tibial spine, sequela   | Diagnosis     | ICD-10-CM |
| S82.116  | Nondisplaced fracture of unspecified tibial spine   | Diagnosis     | ICD-10-CM |
| S82.116A | Nondisplaced fracture of unspecified tibial spine, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.116B | Nondisplaced fracture of unspecified tibial spine, initial encounter for open fracture type I or II                                   | Diagnosis     | ICD-10-CM |
| S82.116C | Nondisplaced fracture of unspecified tibial spine, initial encounter for open fracture type IIIA, IIB, or IIC                         | Diagnosis     | ICD-10-CM |
| S82.116D | Nondisplaced fracture of unspecified tibial spine, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S82.116E | Nondisplaced fracture of unspecified tibial spine, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S82.116F | Nondisplaced fracture of unspecified tibial spine, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.116G | Nondisplaced fracture of unspecified tibial spine, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S82.116H | Nondisplaced fracture of unspecified tibial spine, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.116J | Nondisplaced fracture of unspecified tibial spine, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S82.116K | Nondisplaced fracture of unspecified tibial spine, subsequent encounter for closed fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S82.116M | Nondisplaced fracture of unspecified tibial spine, subsequent encounter for open fracture type I or II with nonunion                       | Diagnosis     | ICD-10-CM |
| S82.116N | Nondisplaced fracture of unspecified tibial spine, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion           | Diagnosis     | ICD-10-CM |
| S82.116P | Nondisplaced fracture of unspecified tibial spine, subsequent encounter for closed fracture with malunion                                  | Diagnosis     | ICD-10-CM |
| S82.116Q | Nondisplaced fracture of unspecified tibial spine, subsequent encounter for open fracture type I or II with malunion                       | Diagnosis     | ICD-10-CM |
| S82.116R | Nondisplaced fracture of unspecified tibial spine, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion           | Diagnosis     | ICD-10-CM |
| S82.116S | Nondisplaced fracture of unspecified tibial spine, sequela   | Diagnosis     | ICD-10-CM |
| S82.12   | Fracture of lateral condyle of tibia   | Diagnosis     | ICD-10-CM |
| S82.121  | Displaced fracture of lateral condyle of right tibia   | Diagnosis     | ICD-10-CM |
| S82.121A | Displaced fracture of lateral condyle of right tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.121B | Displaced fracture of lateral condyle of right tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.121C | Displaced fracture of lateral condyle of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.121D | Displaced fracture of lateral condyle of right tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.121E | Displaced fracture of lateral condyle of right tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.121F | Displaced fracture of lateral condyle of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.121G | Displaced fracture of lateral condyle of right tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.121H | Displaced fracture of lateral condyle of right tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.121J | Displaced fracture of lateral condyle of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.121K | Displaced fracture of lateral condyle of right tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.121M | Displaced fracture of lateral condyle of right tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.121N | Displaced fracture of lateral condyle of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.121P | Displaced fracture of lateral condyle of right tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.121Q | Displaced fracture of lateral condyle of right tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.121R | Displaced fracture of lateral condyle of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.121S | Displaced fracture of lateral condyle of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.122  | Displaced fracture of lateral condyle of left tibia  | Diagnosis     | ICD-10-CM |
| S82.122A | Displaced fracture of lateral condyle of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.122B | Displaced fracture of lateral condyle of left tibia, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.122C | Displaced fracture of lateral condyle of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S82.122D | Displaced fracture of lateral condyle of left tibia, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S82.122E | Displaced fracture of lateral condyle of left tibia, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S82.122F | Displaced fracture of lateral condyle of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S82.122G | Displaced fracture of lateral condyle of left tibia, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S82.122H | Displaced fracture of lateral condyle of left tibia, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S82.122J | Displaced fracture of lateral condyle of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.122K | Displaced fracture of lateral condyle of left tibia, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.122M | Displaced fracture of lateral condyle of left tibia, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.122N | Displaced fracture of lateral condyle of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.122P | Displaced fracture of lateral condyle of left tibia, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.122Q | Displaced fracture of lateral condyle of left tibia, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.122R | Displaced fracture of lateral condyle of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.122S | Displaced fracture of lateral condyle of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.123  | Displaced fracture of lateral condyle of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S82.123A | Displaced fracture of lateral condyle of unspecified tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.123B | Displaced fracture of lateral condyle of unspecified tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.123C | Displaced fracture of lateral condyle of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.123D | Displaced fracture of lateral condyle of unspecified tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.123E | Displaced fracture of lateral condyle of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.123F | Displaced fracture of lateral condyle of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.123G | Displaced fracture of lateral condyle of unspecified tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.123H | Displaced fracture of lateral condyle of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.123J | Displaced fracture of lateral condyle of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.123K | Displaced fracture of lateral condyle of unspecified tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.123M | Displaced fracture of lateral condyle of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                 | Diagnosis     | ICD-10-CM |
| S82.123N | Displaced fracture of lateral condyle of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion     | Diagnosis     | ICD-10-CM |
| S82.123P | Displaced fracture of lateral condyle of unspecified tibia, subsequent encounter for closed fracture with malunion                            | Diagnosis     | ICD-10-CM |
| S82.123Q | Displaced fracture of lateral condyle of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                 | Diagnosis     | ICD-10-CM |
| S82.123R | Displaced fracture of lateral condyle of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion     | Diagnosis     | ICD-10-CM |
| S82.123S | Displaced fracture of lateral condyle of unspecified tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.124  | Nondisplaced fracture of lateral condyle of right tibia   | Diagnosis     | ICD-10-CM |
| S82.124A | Nondisplaced fracture of lateral condyle of right tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.124B | Nondisplaced fracture of lateral condyle of right tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.124C | Nondisplaced fracture of lateral condyle of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.124D | Nondisplaced fracture of lateral condyle of right tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.124E | Nondisplaced fracture of lateral condyle of right tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.124F | Nondisplaced fracture of lateral condyle of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.124G | Nondisplaced fracture of lateral condyle of right tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.124H | Nondisplaced fracture of lateral condyle of right tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.124J | Nondisplaced fracture of lateral condyle of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.124K | Nondisplaced fracture of lateral condyle of right tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.124M | Nondisplaced fracture of lateral condyle of right tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.124N | Nondisplaced fracture of lateral condyle of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.124P | Nondisplaced fracture of lateral condyle of right tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.124Q | Nondisplaced fracture of lateral condyle of right tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.124R | Nondisplaced fracture of lateral condyle of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.124S | Nondisplaced fracture of lateral condyle of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.125  | Nondisplaced fracture of lateral condyle of left tibia  | Diagnosis     | ICD-10-CM |
| S82.125A | Nondisplaced fracture of lateral condyle of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.125B | Nondisplaced fracture of lateral condyle of left tibia, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.125C | Nondisplaced fracture of lateral condyle of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.125D | Nondisplaced fracture of lateral condyle of left tibia, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.125E | Nondisplaced fracture of lateral condyle of left tibia, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S82.125F | Nondisplaced fracture of lateral condyle of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S82.125G | Nondisplaced fracture of lateral condyle of left tibia, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S82.125H | Nondisplaced fracture of lateral condyle of left tibia, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S82.125J | Nondisplaced fracture of lateral condyle of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.125K | Nondisplaced fracture of lateral condyle of left tibia, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.125M | Nondisplaced fracture of lateral condyle of left tibia, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.125N | Nondisplaced fracture of lateral condyle of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.125P | Nondisplaced fracture of lateral condyle of left tibia, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.125Q | Nondisplaced fracture of lateral condyle of left tibia, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.125R | Nondisplaced fracture of lateral condyle of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.125S | Nondisplaced fracture of lateral condyle of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.126  | Nondisplaced fracture of lateral condyle of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S82.126A | Nondisplaced fracture of lateral condyle of unspecified tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.126B | Nondisplaced fracture of lateral condyle of unspecified tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.126C | Nondisplaced fracture of lateral condyle of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.126D | Nondisplaced fracture of lateral condyle of unspecified tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.126E | Nondisplaced fracture of lateral condyle of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.126F | Nondisplaced fracture of lateral condyle of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.126G | Nondisplaced fracture of lateral condyle of unspecified tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.126H | Nondisplaced fracture of lateral condyle of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.126J | Nondisplaced fracture of lateral condyle of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.126K | Nondisplaced fracture of lateral condyle of unspecified tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.126M | Nondisplaced fracture of lateral condyle of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.126N | Nondisplaced fracture of lateral condyle of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.126P | Nondisplaced fracture of lateral condyle of unspecified tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.126Q | Nondisplaced fracture of lateral condyle of unspecified tibia, subsequent encounter for open fracture type I or II with malunion             | Diagnosis     | ICD-10-CM |
| S82.126R | Nondisplaced fracture of lateral condyle of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion | Diagnosis     | ICD-10-CM |
| S82.126S | Nondisplaced fracture of lateral condyle of unspecified tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.13   | Fracture of medial condyle of tibia  | Diagnosis     | ICD-10-CM |
| S82.131  | Displaced fracture of medial condyle of right tibia  | Diagnosis     | ICD-10-CM |
| S82.131A | Displaced fracture of medial condyle of right tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.131B | Displaced fracture of medial condyle of right tibia, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.131C | Displaced fracture of medial condyle of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S82.131D | Displaced fracture of medial condyle of right tibia, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S82.131E | Displaced fracture of medial condyle of right tibia, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S82.131F | Displaced fracture of medial condyle of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S82.131G | Displaced fracture of medial condyle of right tibia, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S82.131H | Displaced fracture of medial condyle of right tibia, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S82.131J | Displaced fracture of medial condyle of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S82.131K | Displaced fracture of medial condyle of right tibia, subsequent encounter for closed fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S82.131M | Displaced fracture of medial condyle of right tibia, subsequent encounter for open fracture type I or II with nonunion                       | Diagnosis     | ICD-10-CM |
| S82.131N | Displaced fracture of medial condyle of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion           | Diagnosis     | ICD-10-CM |
| S82.131P | Displaced fracture of medial condyle of right tibia, subsequent encounter for closed fracture with malunion                                  | Diagnosis     | ICD-10-CM |
| S82.131Q | Displaced fracture of medial condyle of right tibia, subsequent encounter for open fracture type I or II with malunion                       | Diagnosis     | ICD-10-CM |
| S82.131R | Displaced fracture of medial condyle of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion           | Diagnosis     | ICD-10-CM |
| S82.131S | Displaced fracture of medial condyle of right tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.132  | Displaced fracture of medial condyle of left tibia   | Diagnosis     | ICD-10-CM |
| S82.132A | Displaced fracture of medial condyle of left tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.132B | Displaced fracture of medial condyle of left tibia, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S82.132C | Displaced fracture of medial condyle of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                             | Diagnosis     | ICD-10-CM |
| S82.132D | Displaced fracture of medial condyle of left tibia, subsequent encounter for closed fracture with routine healing                            | Diagnosis     | ICD-10-CM |
| S82.132E | Displaced fracture of medial condyle of left tibia, subsequent encounter for open fracture type I or II with routine healing                 | Diagnosis     | ICD-10-CM |
| S82.132F | Displaced fracture of medial condyle of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.132G | Displaced fracture of medial condyle of left tibia, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S82.132H | Displaced fracture of medial condyle of left tibia, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S82.132J | Displaced fracture of medial condyle of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.132K | Displaced fracture of medial condyle of left tibia, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.132M | Displaced fracture of medial condyle of left tibia, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.132N | Displaced fracture of medial condyle of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.132P | Displaced fracture of medial condyle of left tibia, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.132Q | Displaced fracture of medial condyle of left tibia, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.132R | Displaced fracture of medial condyle of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.132S | Displaced fracture of medial condyle of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.133  | Displaced fracture of medial condyle of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S82.133A | Displaced fracture of medial condyle of unspecified tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.133B | Displaced fracture of medial condyle of unspecified tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.133C | Displaced fracture of medial condyle of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.133D | Displaced fracture of medial condyle of unspecified tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.133E | Displaced fracture of medial condyle of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.133F | Displaced fracture of medial condyle of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.133G | Displaced fracture of medial condyle of unspecified tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.133H | Displaced fracture of medial condyle of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.133J | Displaced fracture of medial condyle of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.133K | Displaced fracture of medial condyle of unspecified tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.133M | Displaced fracture of medial condyle of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.133N | Displaced fracture of medial condyle of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.133P | Displaced fracture of medial condyle of unspecified tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.133Q | Displaced fracture of medial condyle of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.133R | Displaced fracture of medial condyle of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.133S | Displaced fracture of medial condyle of unspecified tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.134  | Nondisplaced fracture of medial condyle of right tibia   | Diagnosis     | ICD-10-CM |
| S82.134A | Nondisplaced fracture of medial condyle of right tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.134B | Nondisplaced fracture of medial condyle of right tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.134C | Nondisplaced fracture of medial condyle of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.134D | Nondisplaced fracture of medial condyle of right tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.134E | Nondisplaced fracture of medial condyle of right tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.134F | Nondisplaced fracture of medial condyle of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.134G | Nondisplaced fracture of medial condyle of right tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.134H | Nondisplaced fracture of medial condyle of right tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.134J | Nondisplaced fracture of medial condyle of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.134K | Nondisplaced fracture of medial condyle of right tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.134M | Nondisplaced fracture of medial condyle of right tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.134N | Nondisplaced fracture of medial condyle of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.134P | Nondisplaced fracture of medial condyle of right tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.134Q | Nondisplaced fracture of medial condyle of right tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.134R | Nondisplaced fracture of medial condyle of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.134S | Nondisplaced fracture of medial condyle of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.135  | Nondisplaced fracture of medial condyle of left tibia  | Diagnosis     | ICD-10-CM |
| S82.135A | Nondisplaced fracture of medial condyle of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.135B | Nondisplaced fracture of medial condyle of left tibia, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.135C | Nondisplaced fracture of medial condyle of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.135D | Nondisplaced fracture of medial condyle of left tibia, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S82.135E | Nondisplaced fracture of medial condyle of left tibia, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S82.135F | Nondisplaced fracture of medial condyle of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.135G | Nondisplaced fracture of medial condyle of left tibia, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S82.135H | Nondisplaced fracture of medial condyle of left tibia, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S82.135J | Nondisplaced fracture of medial condyle of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.135K | Nondisplaced fracture of medial condyle of left tibia, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.135M | Nondisplaced fracture of medial condyle of left tibia, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.135N | Nondisplaced fracture of medial condyle of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.135P | Nondisplaced fracture of medial condyle of left tibia, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.135Q | Nondisplaced fracture of medial condyle of left tibia, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.135R | Nondisplaced fracture of medial condyle of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.135S | Nondisplaced fracture of medial condyle of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.136  | Nondisplaced fracture of medial condyle of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S82.136A | Nondisplaced fracture of medial condyle of unspecified tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.136B | Nondisplaced fracture of medial condyle of unspecified tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.136C | Nondisplaced fracture of medial condyle of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.136D | Nondisplaced fracture of medial condyle of unspecified tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.136E | Nondisplaced fracture of medial condyle of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.136F | Nondisplaced fracture of medial condyle of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.136G | Nondisplaced fracture of medial condyle of unspecified tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.136H | Nondisplaced fracture of medial condyle of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.136J | Nondisplaced fracture of medial condyle of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.136K | Nondisplaced fracture of medial condyle of unspecified tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.136M | Nondisplaced fracture of medial condyle of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.136N | Nondisplaced fracture of medial condyle of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.136P | Nondisplaced fracture of medial condyle of unspecified tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.136Q | Nondisplaced fracture of medial condyle of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.136R | Nondisplaced fracture of medial condyle of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.136S | Nondisplaced fracture of medial condyle of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.14   | Bicondylar fracture of tibia   | Diagnosis     | ICD-10-CM |
| S82.141  | Displaced bicondylar fracture of right tibia   | Diagnosis     | ICD-10-CM |
| S82.141A | Displaced bicondylar fracture of right tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.141B | Displaced bicondylar fracture of right tibia, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.141C | Displaced bicondylar fracture of right tibia, initial encounter for open fracture type IIIA, IIB, or IIC                         | Diagnosis     | ICD-10-CM |
| S82.141D | Displaced bicondylar fracture of right tibia, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S82.141E | Displaced bicondylar fracture of right tibia, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S82.141F | Displaced bicondylar fracture of right tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.141G | Displaced bicondylar fracture of right tibia, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S82.141H | Displaced bicondylar fracture of right tibia, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S82.141J | Displaced bicondylar fracture of right tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.141K | Displaced bicondylar fracture of right tibia, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S82.141M | Displaced bicondylar fracture of right tibia, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S82.141N | Displaced bicondylar fracture of right tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.141P | Displaced bicondylar fracture of right tibia, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S82.141Q | Displaced bicondylar fracture of right tibia, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S82.141R | Displaced bicondylar fracture of right tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.141S | Displaced bicondylar fracture of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.142  | Displaced bicondylar fracture of left tibia  | Diagnosis     | ICD-10-CM |
| S82.142A | Displaced bicondylar fracture of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.142B | Displaced bicondylar fracture of left tibia, initial encounter for open fracture type I or II                                    | Diagnosis     | ICD-10-CM |
| S82.142C | Displaced bicondylar fracture of left tibia, initial encounter for open fracture type IIIA, IIB, or IIC                          | Diagnosis     | ICD-10-CM |
| S82.142D | Displaced bicondylar fracture of left tibia, subsequent encounter for closed fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S82.142E | Displaced bicondylar fracture of left tibia, subsequent encounter for open fracture type I or II with routine healing            | Diagnosis     | ICD-10-CM |
| S82.142F | Displaced bicondylar fracture of left tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.142G | Displaced bicondylar fracture of left tibia, subsequent encounter for closed fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S82.142H | Displaced bicondylar fracture of left tibia, subsequent encounter for open fracture type I or II with delayed healing            | Diagnosis     | ICD-10-CM |
| S82.142J | Displaced bicondylar fracture of left tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.142K | Displaced bicondylar fracture of left tibia, subsequent encounter for closed fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S82.142M | Displaced bicondylar fracture of left tibia, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S82.142N | Displaced bicondylar fracture of left tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.142P | Displaced bicondylar fracture of left tibia, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.142Q | Displaced bicondylar fracture of left tibia, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.142R | Displaced bicondylar fracture of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.142S | Displaced bicondylar fracture of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.143  | Displaced bicondylar fracture of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S82.143A | Displaced bicondylar fracture of unspecified tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.143B | Displaced bicondylar fracture of unspecified tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.143C | Displaced bicondylar fracture of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.143D | Displaced bicondylar fracture of unspecified tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.143E | Displaced bicondylar fracture of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.143F | Displaced bicondylar fracture of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.143G | Displaced bicondylar fracture of unspecified tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.143H | Displaced bicondylar fracture of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.143J | Displaced bicondylar fracture of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.143K | Displaced bicondylar fracture of unspecified tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.143M | Displaced bicondylar fracture of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.143N | Displaced bicondylar fracture of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.143P | Displaced bicondylar fracture of unspecified tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.143Q | Displaced bicondylar fracture of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.143R | Displaced bicondylar fracture of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.143S | Displaced bicondylar fracture of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.144  | Nondisplaced bicondylar fracture of right tibia  | Diagnosis     | ICD-10-CM |
| S82.144A | Nondisplaced bicondylar fracture of right tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.144B | Nondisplaced bicondylar fracture of right tibia, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.144C | Nondisplaced bicondylar fracture of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S82.144D | Nondisplaced bicondylar fracture of right tibia, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S82.144E | Nondisplaced bicondylar fracture of right tibia, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S82.144F | Nondisplaced bicondylar fracture of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.144G | Nondisplaced bicondylar fracture of right tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.144H | Nondisplaced bicondylar fracture of right tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.144J | Nondisplaced bicondylar fracture of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.144K | Nondisplaced bicondylar fracture of right tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.144M | Nondisplaced bicondylar fracture of right tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.144N | Nondisplaced bicondylar fracture of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.144P | Nondisplaced bicondylar fracture of right tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.144Q | Nondisplaced bicondylar fracture of right tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.144R | Nondisplaced bicondylar fracture of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.144S | Nondisplaced bicondylar fracture of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.145  | Nondisplaced bicondylar fracture of left tibia  | Diagnosis     | ICD-10-CM |
| S82.145A | Nondisplaced bicondylar fracture of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.145B | Nondisplaced bicondylar fracture of left tibia, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.145C | Nondisplaced bicondylar fracture of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.145D | Nondisplaced bicondylar fracture of left tibia, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S82.145E | Nondisplaced bicondylar fracture of left tibia, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S82.145F | Nondisplaced bicondylar fracture of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.145G | Nondisplaced bicondylar fracture of left tibia, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S82.145H | Nondisplaced bicondylar fracture of left tibia, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S82.145J | Nondisplaced bicondylar fracture of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.145K | Nondisplaced bicondylar fracture of left tibia, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S82.145M | Nondisplaced bicondylar fracture of left tibia, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S82.145N | Nondisplaced bicondylar fracture of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S82.145P | Nondisplaced bicondylar fracture of left tibia, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S82.145Q | Nondisplaced bicondylar fracture of left tibia, subsequent encounter for open fracture type I or II with malunion                     | Diagnosis     | ICD-10-CM |
| S82.145R | Nondisplaced bicondylar fracture of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion         | Diagnosis     | ICD-10-CM |
| S82.145S | Nondisplaced bicondylar fracture of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.146  | Nondisplaced bicondylar fracture of unspecified tibia   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.146A | Nondisplaced bicondylar fracture of unspecified tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.146B | Nondisplaced bicondylar fracture of unspecified tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.146C | Nondisplaced bicondylar fracture of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.146D | Nondisplaced bicondylar fracture of unspecified tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.146E | Nondisplaced bicondylar fracture of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.146F | Nondisplaced bicondylar fracture of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.146G | Nondisplaced bicondylar fracture of unspecified tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.146H | Nondisplaced bicondylar fracture of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.146J | Nondisplaced bicondylar fracture of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.146K | Nondisplaced bicondylar fracture of unspecified tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.146M | Nondisplaced bicondylar fracture of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.146N | Nondisplaced bicondylar fracture of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.146P | Nondisplaced bicondylar fracture of unspecified tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.146Q | Nondisplaced bicondylar fracture of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.146R | Nondisplaced bicondylar fracture of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.146S | Nondisplaced bicondylar fracture of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.15   | Fracture of tibial tuberosity   | Diagnosis     | ICD-10-CM |
| S82.151  | Displaced fracture of right tibial tuberosity   | Diagnosis     | ICD-10-CM |
| S82.151A | Displaced fracture of right tibial tuberosity, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.151B | Displaced fracture of right tibial tuberosity, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S82.151C | Displaced fracture of right tibial tuberosity, initial encounter for open fracture type IIIA, IIIB, or IIIC                                 | Diagnosis     | ICD-10-CM |
| S82.151D | Displaced fracture of right tibial tuberosity, subsequent encounter for closed fracture with routine healing                                | Diagnosis     | ICD-10-CM |
| S82.151E | Displaced fracture of right tibial tuberosity, subsequent encounter for open fracture type I or II with routine healing                     | Diagnosis     | ICD-10-CM |
| S82.151F | Displaced fracture of right tibial tuberosity, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing         | Diagnosis     | ICD-10-CM |
| S82.151G | Displaced fracture of right tibial tuberosity, subsequent encounter for closed fracture with delayed healing                                | Diagnosis     | ICD-10-CM |
| S82.151H | Displaced fracture of right tibial tuberosity, subsequent encounter for open fracture type I or II with delayed healing                     | Diagnosis     | ICD-10-CM |
| S82.151J | Displaced fracture of right tibial tuberosity, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing         | Diagnosis     | ICD-10-CM |
| S82.151K | Displaced fracture of right tibial tuberosity, subsequent encounter for closed fracture with nonunion                                       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.151M | Displaced fracture of right tibial tuberosity, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S82.151N | Displaced fracture of right tibial tuberosity, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion       | Diagnosis     | ICD-10-CM |
| S82.151P | Displaced fracture of right tibial tuberosity, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S82.151Q | Displaced fracture of right tibial tuberosity, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S82.151R | Displaced fracture of right tibial tuberosity, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S82.151S | Displaced fracture of right tibial tuberosity, sequela   | Diagnosis     | ICD-10-CM |
| S82.152  | Displaced fracture of left tibial tuberosity   | Diagnosis     | ICD-10-CM |
| S82.152A | Displaced fracture of left tibial tuberosity, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.152B | Displaced fracture of left tibial tuberosity, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.152C | Displaced fracture of left tibial tuberosity, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.152D | Displaced fracture of left tibial tuberosity, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.152E | Displaced fracture of left tibial tuberosity, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.152F | Displaced fracture of left tibial tuberosity, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.152G | Displaced fracture of left tibial tuberosity, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.152H | Displaced fracture of left tibial tuberosity, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.152J | Displaced fracture of left tibial tuberosity, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.152K | Displaced fracture of left tibial tuberosity, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.152M | Displaced fracture of left tibial tuberosity, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.152N | Displaced fracture of left tibial tuberosity, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.152P | Displaced fracture of left tibial tuberosity, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.152Q | Displaced fracture of left tibial tuberosity, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.152R | Displaced fracture of left tibial tuberosity, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.152S | Displaced fracture of left tibial tuberosity, sequela  | Diagnosis     | ICD-10-CM |
| S82.153  | Displaced fracture of unspecified tibial tuberosity  | Diagnosis     | ICD-10-CM |
| S82.153A | Displaced fracture of unspecified tibial tuberosity, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.153B | Displaced fracture of unspecified tibial tuberosity, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |
| S82.153C | Displaced fracture of unspecified tibial tuberosity, initial encounter for open fracture type IIIA, IIIB, or IIIC                  | Diagnosis     | ICD-10-CM |
| S82.153D | Displaced fracture of unspecified tibial tuberosity, subsequent encounter for closed fracture with routine healing                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.153E | Displaced fracture of unspecified tibial tuberosity, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.153F | Displaced fracture of unspecified tibial tuberosity, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.153G | Displaced fracture of unspecified tibial tuberosity, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.153H | Displaced fracture of unspecified tibial tuberosity, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.153J | Displaced fracture of unspecified tibial tuberosity, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.153K | Displaced fracture of unspecified tibial tuberosity, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.153M | Displaced fracture of unspecified tibial tuberosity, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.153N | Displaced fracture of unspecified tibial tuberosity, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.153P | Displaced fracture of unspecified tibial tuberosity, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.153Q | Displaced fracture of unspecified tibial tuberosity, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.153R | Displaced fracture of unspecified tibial tuberosity, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.153S | Displaced fracture of unspecified tibial tuberosity, sequela  | Diagnosis     | ICD-10-CM |
| S82.154  | Nondisplaced fracture of right tibial tuberosity  | Diagnosis     | ICD-10-CM |
| S82.154A | Nondisplaced fracture of right tibial tuberosity, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.154B | Nondisplaced fracture of right tibial tuberosity, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.154C | Nondisplaced fracture of right tibial tuberosity, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S82.154D | Nondisplaced fracture of right tibial tuberosity, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S82.154E | Nondisplaced fracture of right tibial tuberosity, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S82.154F | Nondisplaced fracture of right tibial tuberosity, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S82.154G | Nondisplaced fracture of right tibial tuberosity, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S82.154H | Nondisplaced fracture of right tibial tuberosity, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S82.154J | Nondisplaced fracture of right tibial tuberosity, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S82.154K | Nondisplaced fracture of right tibial tuberosity, subsequent encounter for closed fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S82.154M | Nondisplaced fracture of right tibial tuberosity, subsequent encounter for open fracture type I or II with nonunion                       | Diagnosis     | ICD-10-CM |
| S82.154N | Nondisplaced fracture of right tibial tuberosity, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion           | Diagnosis     | ICD-10-CM |
| S82.154P | Nondisplaced fracture of right tibial tuberosity, subsequent encounter for closed fracture with malunion                                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.154Q | Nondisplaced fracture of right tibial tuberosity, subsequent encounter for open fracture type I or II with malunion                          | Diagnosis     | ICD-10-CM |
| S82.154R | Nondisplaced fracture of right tibial tuberosity, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion              | Diagnosis     | ICD-10-CM |
| S82.154S | Nondisplaced fracture of right tibial tuberosity, sequela  | Diagnosis     | ICD-10-CM |
| S82.155  | Nondisplaced fracture of left tibial tuberosity  | Diagnosis     | ICD-10-CM |
| S82.155A | Nondisplaced fracture of left tibial tuberosity, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.155B | Nondisplaced fracture of left tibial tuberosity, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.155C | Nondisplaced fracture of left tibial tuberosity, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S82.155D | Nondisplaced fracture of left tibial tuberosity, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S82.155E | Nondisplaced fracture of left tibial tuberosity, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S82.155F | Nondisplaced fracture of left tibial tuberosity, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S82.155G | Nondisplaced fracture of left tibial tuberosity, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S82.155H | Nondisplaced fracture of left tibial tuberosity, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S82.155J | Nondisplaced fracture of left tibial tuberosity, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.155K | Nondisplaced fracture of left tibial tuberosity, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.155M | Nondisplaced fracture of left tibial tuberosity, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.155N | Nondisplaced fracture of left tibial tuberosity, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.155P | Nondisplaced fracture of left tibial tuberosity, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.155Q | Nondisplaced fracture of left tibial tuberosity, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.155R | Nondisplaced fracture of left tibial tuberosity, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.155S | Nondisplaced fracture of left tibial tuberosity, sequela   | Diagnosis     | ICD-10-CM |
| S82.156  | Nondisplaced fracture of unspecified tibial tuberosity   | Diagnosis     | ICD-10-CM |
| S82.156A | Nondisplaced fracture of unspecified tibial tuberosity, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.156B | Nondisplaced fracture of unspecified tibial tuberosity, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.156C | Nondisplaced fracture of unspecified tibial tuberosity, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.156D | Nondisplaced fracture of unspecified tibial tuberosity, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.156E | Nondisplaced fracture of unspecified tibial tuberosity, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.156F | Nondisplaced fracture of unspecified tibial tuberosity, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.156G | Nondisplaced fracture of unspecified tibial tuberosity, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.156H | Nondisplaced fracture of unspecified tibial tuberosity, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.156J | Nondisplaced fracture of unspecified tibial tuberosity, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.156K | Nondisplaced fracture of unspecified tibial tuberosity, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.156M | Nondisplaced fracture of unspecified tibial tuberosity, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.156N | Nondisplaced fracture of unspecified tibial tuberosity, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.156P | Nondisplaced fracture of unspecified tibial tuberosity, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.156Q | Nondisplaced fracture of unspecified tibial tuberosity, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.156R | Nondisplaced fracture of unspecified tibial tuberosity, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.156S | Nondisplaced fracture of unspecified tibial tuberosity, sequela  | Diagnosis     | ICD-10-CM |
| S82.16   | Torus fracture of upper end of tibia   | Diagnosis     | ICD-10-CM |
| S82.161  | Torus fracture of upper end of right tibia   | Diagnosis     | ICD-10-CM |
| S82.161A | Torus fracture of upper end of right tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.161D | Torus fracture of upper end of right tibia, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S82.161G | Torus fracture of upper end of right tibia, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S82.161K | Torus fracture of upper end of right tibia, subsequent encounter for fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S82.161P | Torus fracture of upper end of right tibia, subsequent encounter for fracture with malunion  | Diagnosis     | ICD-10-CM |
| S82.161S | Torus fracture of upper end of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.162  | Torus fracture of upper end of left tibia  | Diagnosis     | ICD-10-CM |
| S82.162A | Torus fracture of upper end of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.162D | Torus fracture of upper end of left tibia, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S82.162G | Torus fracture of upper end of left tibia, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.162K | Torus fracture of upper end of left tibia, subsequent encounter for fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S82.162P | Torus fracture of upper end of left tibia, subsequent encounter for fracture with malunion   | Diagnosis     | ICD-10-CM |
| S82.162S | Torus fracture of upper end of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.169  | Torus fracture of upper end of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S82.169A | Torus fracture of upper end of unspecified tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.169D | Torus fracture of upper end of unspecified tibia, subsequent encounter for fracture with routine healing                                     | Diagnosis     | ICD-10-CM |
| S82.169G | Torus fracture of upper end of unspecified tibia, subsequent encounter for fracture with delayed healing                                     | Diagnosis     | ICD-10-CM |
| S82.169K | Torus fracture of upper end of unspecified tibia, subsequent encounter for fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S82.169P | Torus fracture of upper end of unspecified tibia, subsequent encounter for fracture with malunion  | Diagnosis     | ICD-10-CM |
| S82.169S | Torus fracture of upper end of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.19   | Other fracture of upper end of tibia   | Diagnosis     | ICD-10-CM |
| S82.191  | Other fracture of upper end of right tibia   | Diagnosis     | ICD-10-CM |
| S82.191A | Other fracture of upper end of right tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.191B | Other fracture of upper end of right tibia, initial encounter for open fracture type I or II                                   | Diagnosis     | ICD-10-CM |
| S82.191C | Other fracture of upper end of right tibia, initial encounter for open fracture type IIIA, IIB, or IIC                         | Diagnosis     | ICD-10-CM |
| S82.191D | Other fracture of upper end of right tibia, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S82.191E | Other fracture of upper end of right tibia, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S82.191F | Other fracture of upper end of right tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.191G | Other fracture of upper end of right tibia, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S82.191H | Other fracture of upper end of right tibia, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S82.191J | Other fracture of upper end of right tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.191K | Other fracture of upper end of right tibia, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S82.191M | Other fracture of upper end of right tibia, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S82.191N | Other fracture of upper end of right tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.191P | Other fracture of upper end of right tibia, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S82.191Q | Other fracture of upper end of right tibia, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S82.191R | Other fracture of upper end of right tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.191S | Other fracture of upper end of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.192  | Other fracture of upper end of left tibia  | Diagnosis     | ICD-10-CM |
| S82.192A | Other fracture of upper end of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.192B | Other fracture of upper end of left tibia, initial encounter for open fracture type I or II                                    | Diagnosis     | ICD-10-CM |
| S82.192C | Other fracture of upper end of left tibia, initial encounter for open fracture type IIIA, IIB, or IIC                          | Diagnosis     | ICD-10-CM |
| S82.192D | Other fracture of upper end of left tibia, subsequent encounter for closed fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S82.192E | Other fracture of upper end of left tibia, subsequent encounter for open fracture type I or II with routine healing            | Diagnosis     | ICD-10-CM |
| S82.192F | Other fracture of upper end of left tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.192G | Other fracture of upper end of left tibia, subsequent encounter for closed fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S82.192H | Other fracture of upper end of left tibia, subsequent encounter for open fracture type I or II with delayed healing            | Diagnosis     | ICD-10-CM |
| S82.192J | Other fracture of upper end of left tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.192K | Other fracture of upper end of left tibia, subsequent encounter for closed fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S82.192M | Other fracture of upper end of left tibia, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.192N | Other fracture of upper end of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.192P | Other fracture of upper end of left tibia, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.192Q | Other fracture of upper end of left tibia, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.192R | Other fracture of upper end of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.192S | Other fracture of upper end of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.199  | Other fracture of upper end of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S82.199A | Other fracture of upper end of unspecified tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.199B | Other fracture of upper end of unspecified tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.199C | Other fracture of upper end of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.199D | Other fracture of upper end of unspecified tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.199E | Other fracture of upper end of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.199F | Other fracture of upper end of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.199G | Other fracture of upper end of unspecified tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.199H | Other fracture of upper end of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.199J | Other fracture of upper end of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.199K | Other fracture of upper end of unspecified tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.199M | Other fracture of upper end of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.199N | Other fracture of upper end of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.199P | Other fracture of upper end of unspecified tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.199Q | Other fracture of upper end of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.199R | Other fracture of upper end of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.199S | Other fracture of upper end of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.2    | Fracture of shaft of tibia   | Diagnosis     | ICD-10-CM |
| S82.20   | Unspecified fracture of shaft of tibia   | Diagnosis     | ICD-10-CM |
| S82.201  | Unspecified fracture of shaft of right tibia   | Diagnosis     | ICD-10-CM |
| S82.201A | Unspecified fracture of shaft of right tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.201B | Unspecified fracture of shaft of right tibia, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S82.201C | Unspecified fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                             | Diagnosis     | ICD-10-CM |
| S82.201D | Unspecified fracture of shaft of right tibia, subsequent encounter for closed fracture with routine healing                            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.201E | Unspecified fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S82.201F | Unspecified fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.201G | Unspecified fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S82.201H | Unspecified fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S82.201J | Unspecified fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.201K | Unspecified fracture of shaft of right tibia, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S82.201M | Unspecified fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S82.201N | Unspecified fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.201P | Unspecified fracture of shaft of right tibia, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S82.201Q | Unspecified fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S82.201R | Unspecified fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.201S | Unspecified fracture of shaft of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.202  | Unspecified fracture of shaft of left tibia  | Diagnosis     | ICD-10-CM |
| S82.202A | Unspecified fracture of shaft of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.202B | Unspecified fracture of shaft of left tibia, initial encounter for open fracture type I or II                                    | Diagnosis     | ICD-10-CM |
| S82.202C | Unspecified fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIB, or IIC                          | Diagnosis     | ICD-10-CM |
| S82.202D | Unspecified fracture of shaft of left tibia, subsequent encounter for closed fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S82.202E | Unspecified fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with routine healing            | Diagnosis     | ICD-10-CM |
| S82.202F | Unspecified fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.202G | Unspecified fracture of shaft of left tibia, subsequent encounter for closed fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S82.202H | Unspecified fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with delayed healing            | Diagnosis     | ICD-10-CM |
| S82.202J | Unspecified fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.202K | Unspecified fracture of shaft of left tibia, subsequent encounter for closed fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S82.202M | Unspecified fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S82.202N | Unspecified fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion         | Diagnosis     | ICD-10-CM |
| S82.202P | Unspecified fracture of shaft of left tibia, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S82.202Q | Unspecified fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.202R | Unspecified fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion                  | Diagnosis     | ICD-10-CM |
| S82.202S | Unspecified fracture of shaft of left tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.209  | Unspecified fracture of shaft of unspecified tibia  | Diagnosis     | ICD-10-CM |
| S82.209A | Unspecified fracture of shaft of unspecified tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.209B | Unspecified fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.209C | Unspecified fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S82.209D | Unspecified fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S82.209E | Unspecified fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S82.209F | Unspecified fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S82.209G | Unspecified fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S82.209H | Unspecified fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S82.209J | Unspecified fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S82.209K | Unspecified fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S82.209M | Unspecified fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                       | Diagnosis     | ICD-10-CM |
| S82.209N | Unspecified fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion           | Diagnosis     | ICD-10-CM |
| S82.209P | Unspecified fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with malunion                                  | Diagnosis     | ICD-10-CM |
| S82.209Q | Unspecified fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                       | Diagnosis     | ICD-10-CM |
| S82.209R | Unspecified fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion           | Diagnosis     | ICD-10-CM |
| S82.209S | Unspecified fracture of shaft of unspecified tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.22   | Transverse fracture of shaft of tibia   | Diagnosis     | ICD-10-CM |
| S82.221  | Displaced transverse fracture of shaft of right tibia   | Diagnosis     | ICD-10-CM |
| S82.221A | Displaced transverse fracture of shaft of right tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.221B | Displaced transverse fracture of shaft of right tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.221C | Displaced transverse fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.221D | Displaced transverse fracture of shaft of right tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.221E | Displaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.221F | Displaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.221G | Displaced transverse fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.221H | Displaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.221J | Displaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.221K | Displaced transverse fracture of shaft of right tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.221M | Displaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.221N | Displaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.221P | Displaced transverse fracture of shaft of right tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.221Q | Displaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.221R | Displaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.221S | Displaced transverse fracture of shaft of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.222  | Displaced transverse fracture of shaft of left tibia  | Diagnosis     | ICD-10-CM |
| S82.222A | Displaced transverse fracture of shaft of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.222B | Displaced transverse fracture of shaft of left tibia, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.222C | Displaced transverse fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.222D | Displaced transverse fracture of shaft of left tibia, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S82.222E | Displaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S82.222F | Displaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.222G | Displaced transverse fracture of shaft of left tibia, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S82.222H | Displaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S82.222J | Displaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.222K | Displaced transverse fracture of shaft of left tibia, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S82.222M | Displaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S82.222N | Displaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S82.222P | Displaced transverse fracture of shaft of left tibia, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S82.222Q | Displaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with malunion                     | Diagnosis     | ICD-10-CM |
| S82.222R | Displaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion         | Diagnosis     | ICD-10-CM |
| S82.222S | Displaced transverse fracture of shaft of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.223  | Displaced transverse fracture of shaft of unspecified tibia   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.223A | Displaced transverse fracture of shaft of unspecified tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.223B | Displaced transverse fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.223C | Displaced transverse fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.223D | Displaced transverse fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.223E | Displaced transverse fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.223F | Displaced transverse fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.223G | Displaced transverse fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.223H | Displaced transverse fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.223J | Displaced transverse fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.223K | Displaced transverse fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.223M | Displaced transverse fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.223N | Displaced transverse fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.223P | Displaced transverse fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.223Q | Displaced transverse fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.223R | Displaced transverse fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.223S | Displaced transverse fracture of shaft of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.224  | Nondisplaced transverse fracture of shaft of right tibia  | Diagnosis     | ICD-10-CM |
| S82.224A | Nondisplaced transverse fracture of shaft of right tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.224B | Nondisplaced transverse fracture of shaft of right tibia, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.224C | Nondisplaced transverse fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S82.224D | Nondisplaced transverse fracture of shaft of right tibia, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S82.224E | Nondisplaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S82.224F | Nondisplaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S82.224G | Nondisplaced transverse fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S82.224H | Nondisplaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S82.224J | Nondisplaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.224K | Nondisplaced transverse fracture of shaft of right tibia, subsequent encounter for closed fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S82.224M | Nondisplaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S82.224N | Nondisplaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion       | Diagnosis     | ICD-10-CM |
| S82.224P | Nondisplaced transverse fracture of shaft of right tibia, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S82.224Q | Nondisplaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S82.224R | Nondisplaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S82.224S | Nondisplaced transverse fracture of shaft of right tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.225  | Nondisplaced transverse fracture of shaft of left tibia   | Diagnosis     | ICD-10-CM |
| S82.225A | Nondisplaced transverse fracture of shaft of left tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.225B | Nondisplaced transverse fracture of shaft of left tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.225C | Nondisplaced transverse fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.225D | Nondisplaced transverse fracture of shaft of left tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.225E | Nondisplaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.225F | Nondisplaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.225G | Nondisplaced transverse fracture of shaft of left tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.225H | Nondisplaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.225J | Nondisplaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.225K | Nondisplaced transverse fracture of shaft of left tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.225M | Nondisplaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.225N | Nondisplaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.225P | Nondisplaced transverse fracture of shaft of left tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.225Q | Nondisplaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.225R | Nondisplaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.225S | Nondisplaced transverse fracture of shaft of left tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.226  | Nondisplaced transverse fracture of shaft of unspecified tibia  | Diagnosis     | ICD-10-CM |
| S82.226A | Nondisplaced transverse fracture of shaft of unspecified tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.226B | Nondisplaced transverse fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.226C | Nondisplaced transverse fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.226D | Nondisplaced transverse fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.226E | Nondisplaced transverse fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.226F | Nondisplaced transverse fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.226G | Nondisplaced transverse fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.226H | Nondisplaced transverse fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.226J | Nondisplaced transverse fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.226K | Nondisplaced transverse fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.226M | Nondisplaced transverse fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.226N | Nondisplaced transverse fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.226P | Nondisplaced transverse fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.226Q | Nondisplaced transverse fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.226R | Nondisplaced transverse fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.226S | Nondisplaced transverse fracture of shaft of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.23   | Oblique fracture of shaft of tibia   | Diagnosis     | ICD-10-CM |
| S82.231  | Displaced oblique fracture of shaft of right tibia   | Diagnosis     | ICD-10-CM |
| S82.231A | Displaced oblique fracture of shaft of right tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.231B | Displaced oblique fracture of shaft of right tibia, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S82.231C | Displaced oblique fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                                     | Diagnosis     | ICD-10-CM |
| S82.231D | Displaced oblique fracture of shaft of right tibia, subsequent encounter for closed fracture with routine healing                                    | Diagnosis     | ICD-10-CM |
| S82.231E | Displaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with routine healing                         | Diagnosis     | ICD-10-CM |
| S82.231F | Displaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing             | Diagnosis     | ICD-10-CM |
| S82.231G | Displaced oblique fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing                                    | Diagnosis     | ICD-10-CM |
| S82.231H | Displaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing                         | Diagnosis     | ICD-10-CM |
| S82.231J | Displaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.231K | Displaced oblique fracture of shaft of right tibia, subsequent encounter for closed fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S82.231M | Displaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with nonunion                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.231N | Displaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion       | Diagnosis     | ICD-10-CM |
| S82.231P | Displaced oblique fracture of shaft of right tibia, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S82.231Q | Displaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S82.231R | Displaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S82.231S | Displaced oblique fracture of shaft of right tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.232  | Displaced oblique fracture of shaft of left tibia   | Diagnosis     | ICD-10-CM |
| S82.232A | Displaced oblique fracture of shaft of left tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.232B | Displaced oblique fracture of shaft of left tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.232C | Displaced oblique fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.232D | Displaced oblique fracture of shaft of left tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.232E | Displaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.232F | Displaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.232G | Displaced oblique fracture of shaft of left tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.232H | Displaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.232J | Displaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.232K | Displaced oblique fracture of shaft of left tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.232M | Displaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.232N | Displaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.232P | Displaced oblique fracture of shaft of left tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.232Q | Displaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.232R | Displaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.232S | Displaced oblique fracture of shaft of left tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.233  | Displaced oblique fracture of shaft of unspecified tibia  | Diagnosis     | ICD-10-CM |
| S82.233A | Displaced oblique fracture of shaft of unspecified tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.233B | Displaced oblique fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |
| S82.233C | Displaced oblique fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                  | Diagnosis     | ICD-10-CM |
| S82.233D | Displaced oblique fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with routine healing                 | Diagnosis     | ICD-10-CM |
| S82.233E | Displaced oblique fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.233F | Displaced oblique fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.233G | Displaced oblique fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.233H | Displaced oblique fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.233J | Displaced oblique fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.233K | Displaced oblique fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.233M | Displaced oblique fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.233N | Displaced oblique fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.233P | Displaced oblique fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.233Q | Displaced oblique fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.233R | Displaced oblique fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.233S | Displaced oblique fracture of shaft of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.234  | Nondisplaced oblique fracture of shaft of right tibia  | Diagnosis     | ICD-10-CM |
| S82.234A | Nondisplaced oblique fracture of shaft of right tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.234B | Nondisplaced oblique fracture of shaft of right tibia, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.234C | Nondisplaced oblique fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S82.234D | Nondisplaced oblique fracture of shaft of right tibia, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S82.234E | Nondisplaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S82.234F | Nondisplaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S82.234G | Nondisplaced oblique fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S82.234H | Nondisplaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S82.234J | Nondisplaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S82.234K | Nondisplaced oblique fracture of shaft of right tibia, subsequent encounter for closed fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S82.234M | Nondisplaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with nonunion                       | Diagnosis     | ICD-10-CM |
| S82.234N | Nondisplaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion           | Diagnosis     | ICD-10-CM |
| S82.234P | Nondisplaced oblique fracture of shaft of right tibia, subsequent encounter for closed fracture with malunion                                  | Diagnosis     | ICD-10-CM |
| S82.234Q | Nondisplaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with malunion                       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.234R | Nondisplaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion              | Diagnosis     | ICD-10-CM |
| S82.234S | Nondisplaced oblique fracture of shaft of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.235  | Nondisplaced oblique fracture of shaft of left tibia  | Diagnosis     | ICD-10-CM |
| S82.235A | Nondisplaced oblique fracture of shaft of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.235B | Nondisplaced oblique fracture of shaft of left tibia, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.235C | Nondisplaced oblique fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S82.235D | Nondisplaced oblique fracture of shaft of left tibia, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S82.235E | Nondisplaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S82.235F | Nondisplaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S82.235G | Nondisplaced oblique fracture of shaft of left tibia, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S82.235H | Nondisplaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S82.235J | Nondisplaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.235K | Nondisplaced oblique fracture of shaft of left tibia, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.235M | Nondisplaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.235N | Nondisplaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.235P | Nondisplaced oblique fracture of shaft of left tibia, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.235Q | Nondisplaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.235R | Nondisplaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.235S | Nondisplaced oblique fracture of shaft of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.236  | Nondisplaced oblique fracture of shaft of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S82.236A | Nondisplaced oblique fracture of shaft of unspecified tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.236B | Nondisplaced oblique fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.236C | Nondisplaced oblique fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.236D | Nondisplaced oblique fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.236E | Nondisplaced oblique fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.236F | Nondisplaced oblique fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.236G | Nondisplaced oblique fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.236H | Nondisplaced oblique fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.236J | Nondisplaced oblique fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.236K | Nondisplaced oblique fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.236M | Nondisplaced oblique fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.236N | Nondisplaced oblique fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.236P | Nondisplaced oblique fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.236Q | Nondisplaced oblique fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.236R | Nondisplaced oblique fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.236S | Nondisplaced oblique fracture of shaft of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.24   | Spiral fracture of shaft of tibia   | Diagnosis     | ICD-10-CM |
| S82.241  | Displaced spiral fracture of shaft of right tibia   | Diagnosis     | ICD-10-CM |
| S82.241A | Displaced spiral fracture of shaft of right tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.241B | Displaced spiral fracture of shaft of right tibia, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S82.241C | Displaced spiral fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                                   | Diagnosis     | ICD-10-CM |
| S82.241D | Displaced spiral fracture of shaft of right tibia, subsequent encounter for closed fracture with routine healing                                  | Diagnosis     | ICD-10-CM |
| S82.241E | Displaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with routine healing                       | Diagnosis     | ICD-10-CM |
| S82.241F | Displaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing           | Diagnosis     | ICD-10-CM |
| S82.241G | Displaced spiral fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing                                  | Diagnosis     | ICD-10-CM |
| S82.241H | Displaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing                       | Diagnosis     | ICD-10-CM |
| S82.241J | Displaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing           | Diagnosis     | ICD-10-CM |
| S82.241K | Displaced spiral fracture of shaft of right tibia, subsequent encounter for closed fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S82.241M | Displaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with nonunion                              | Diagnosis     | ICD-10-CM |
| S82.241N | Displaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion                  | Diagnosis     | ICD-10-CM |
| S82.241P | Displaced spiral fracture of shaft of right tibia, subsequent encounter for closed fracture with malunion   | Diagnosis     | ICD-10-CM |
| S82.241Q | Displaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with malunion                              | Diagnosis     | ICD-10-CM |
| S82.241R | Displaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion                  | Diagnosis     | ICD-10-CM |
| S82.241S | Displaced spiral fracture of shaft of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.242  | Displaced spiral fracture of shaft of left tibia  | Diagnosis     | ICD-10-CM |
| S82.242A | Displaced spiral fracture of shaft of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.242B | Displaced spiral fracture of shaft of left tibia, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.242C | Displaced spiral fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIB, or IIC                                | Diagnosis     | ICD-10-CM |
| S82.242D | Displaced spiral fracture of shaft of left tibia, subsequent encounter for closed fracture with routine healing                             | Diagnosis     | ICD-10-CM |
| S82.242E | Displaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with routine healing                  | Diagnosis     | ICD-10-CM |
| S82.242F | Displaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing        | Diagnosis     | ICD-10-CM |
| S82.242G | Displaced spiral fracture of shaft of left tibia, subsequent encounter for closed fracture with delayed healing                             | Diagnosis     | ICD-10-CM |
| S82.242H | Displaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with delayed healing                  | Diagnosis     | ICD-10-CM |
| S82.242J | Displaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.242K | Displaced spiral fracture of shaft of left tibia, subsequent encounter for closed fracture with nonunion                                    | Diagnosis     | ICD-10-CM |
| S82.242M | Displaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with nonunion                         | Diagnosis     | ICD-10-CM |
| S82.242N | Displaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.242P | Displaced spiral fracture of shaft of left tibia, subsequent encounter for closed fracture with malunion                                    | Diagnosis     | ICD-10-CM |
| S82.242Q | Displaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with malunion                         | Diagnosis     | ICD-10-CM |
| S82.242R | Displaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.242S | Displaced spiral fracture of shaft of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.243  | Displaced spiral fracture of shaft of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S82.243A | Displaced spiral fracture of shaft of unspecified tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.243B | Displaced spiral fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II                                   | Diagnosis     | ICD-10-CM |
| S82.243C | Displaced spiral fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIB, or IIC                         | Diagnosis     | ICD-10-CM |
| S82.243D | Displaced spiral fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S82.243E | Displaced spiral fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S82.243F | Displaced spiral fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.243G | Displaced spiral fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S82.243H | Displaced spiral fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S82.243J | Displaced spiral fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.243K | Displaced spiral fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S82.243M | Displaced spiral fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.243N | Displaced spiral fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion     | Diagnosis     | ICD-10-CM |
| S82.243P | Displaced spiral fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with malunion                            | Diagnosis     | ICD-10-CM |
| S82.243Q | Displaced spiral fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                 | Diagnosis     | ICD-10-CM |
| S82.243R | Displaced spiral fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion     | Diagnosis     | ICD-10-CM |
| S82.243S | Displaced spiral fracture of shaft of unspecified tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.244  | Nondisplaced spiral fracture of shaft of right tibia   | Diagnosis     | ICD-10-CM |
| S82.244A | Nondisplaced spiral fracture of shaft of right tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.244B | Nondisplaced spiral fracture of shaft of right tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.244C | Nondisplaced spiral fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.244D | Nondisplaced spiral fracture of shaft of right tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.244E | Nondisplaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.244F | Nondisplaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.244G | Nondisplaced spiral fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.244H | Nondisplaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.244J | Nondisplaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.244K | Nondisplaced spiral fracture of shaft of right tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.244M | Nondisplaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.244N | Nondisplaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.244P | Nondisplaced spiral fracture of shaft of right tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.244Q | Nondisplaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.244R | Nondisplaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.244S | Nondisplaced spiral fracture of shaft of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.245  | Nondisplaced spiral fracture of shaft of left tibia  | Diagnosis     | ICD-10-CM |
| S82.245A | Nondisplaced spiral fracture of shaft of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.245B | Nondisplaced spiral fracture of shaft of left tibia, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.245C | Nondisplaced spiral fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.245D | Nondisplaced spiral fracture of shaft of left tibia, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S82.245E | Nondisplaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.245F | Nondisplaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S82.245G | Nondisplaced spiral fracture of shaft of left tibia, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S82.245H | Nondisplaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S82.245J | Nondisplaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.245K | Nondisplaced spiral fracture of shaft of left tibia, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.245M | Nondisplaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.245N | Nondisplaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.245P | Nondisplaced spiral fracture of shaft of left tibia, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.245Q | Nondisplaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.245R | Nondisplaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.245S | Nondisplaced spiral fracture of shaft of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.246  | Nondisplaced spiral fracture of shaft of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S82.246A | Nondisplaced spiral fracture of shaft of unspecified tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.246B | Nondisplaced spiral fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.246C | Nondisplaced spiral fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.246D | Nondisplaced spiral fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.246E | Nondisplaced spiral fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.246F | Nondisplaced spiral fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.246G | Nondisplaced spiral fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.246H | Nondisplaced spiral fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.246J | Nondisplaced spiral fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.246K | Nondisplaced spiral fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.246M | Nondisplaced spiral fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.246N | Nondisplaced spiral fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.246P | Nondisplaced spiral fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.246Q | Nondisplaced spiral fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.246R | Nondisplaced spiral fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion   | Diagnosis     | ICD-10-CM |
| S82.246S | Nondisplaced spiral fracture of shaft of unspecified tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.25   | Comminuted fracture of shaft of tibia   | Diagnosis     | ICD-10-CM |
| S82.251  | Displaced comminuted fracture of shaft of right tibia   | Diagnosis     | ICD-10-CM |
| S82.251A | Displaced comminuted fracture of shaft of right tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.251B | Displaced comminuted fracture of shaft of right tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.251C | Displaced comminuted fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.251D | Displaced comminuted fracture of shaft of right tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.251E | Displaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.251F | Displaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.251G | Displaced comminuted fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.251H | Displaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.251J | Displaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.251K | Displaced comminuted fracture of shaft of right tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.251M | Displaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.251N | Displaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.251P | Displaced comminuted fracture of shaft of right tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.251Q | Displaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.251R | Displaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.251S | Displaced comminuted fracture of shaft of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.252  | Displaced comminuted fracture of shaft of left tibia  | Diagnosis     | ICD-10-CM |
| S82.252A | Displaced comminuted fracture of shaft of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.252B | Displaced comminuted fracture of shaft of left tibia, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.252C | Displaced comminuted fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.252D | Displaced comminuted fracture of shaft of left tibia, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S82.252E | Displaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S82.252F | Displaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.252G | Displaced comminuted fracture of shaft of left tibia, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.252H | Displaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S82.252J | Displaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.252K | Displaced comminuted fracture of shaft of left tibia, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.252M | Displaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.252N | Displaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.252P | Displaced comminuted fracture of shaft of left tibia, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.252Q | Displaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.252R | Displaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.252S | Displaced comminuted fracture of shaft of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.253  | Displaced comminuted fracture of shaft of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S82.253A | Displaced comminuted fracture of shaft of unspecified tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.253B | Displaced comminuted fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.253C | Displaced comminuted fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.253D | Displaced comminuted fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.253E | Displaced comminuted fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.253F | Displaced comminuted fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.253G | Displaced comminuted fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.253H | Displaced comminuted fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.253J | Displaced comminuted fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.253K | Displaced comminuted fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.253M | Displaced comminuted fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.253N | Displaced comminuted fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.253P | Displaced comminuted fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.253Q | Displaced comminuted fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.253R | Displaced comminuted fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.253S | Displaced comminuted fracture of shaft of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.254  | Nondisplaced comminuted fracture of shaft of right tibia  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.254A | Nondisplaced comminuted fracture of shaft of right tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.254B | Nondisplaced comminuted fracture of shaft of right tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.254C | Nondisplaced comminuted fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.254D | Nondisplaced comminuted fracture of shaft of right tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.254E | Nondisplaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.254F | Nondisplaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.254G | Nondisplaced comminuted fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.254H | Nondisplaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.254J | Nondisplaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.254K | Nondisplaced comminuted fracture of shaft of right tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.254M | Nondisplaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.254N | Nondisplaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.254P | Nondisplaced comminuted fracture of shaft of right tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.254Q | Nondisplaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.254R | Nondisplaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.254S | Nondisplaced comminuted fracture of shaft of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.255  | Nondisplaced comminuted fracture of shaft of left tibia  | Diagnosis     | ICD-10-CM |
| S82.255A | Nondisplaced comminuted fracture of shaft of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.255B | Nondisplaced comminuted fracture of shaft of left tibia, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.255C | Nondisplaced comminuted fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.255D | Nondisplaced comminuted fracture of shaft of left tibia, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S82.255E | Nondisplaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S82.255F | Nondisplaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.255G | Nondisplaced comminuted fracture of shaft of left tibia, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S82.255H | Nondisplaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S82.255J | Nondisplaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.255K | Nondisplaced comminuted fracture of shaft of left tibia, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.255M | Nondisplaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.255N | Nondisplaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.255P | Nondisplaced comminuted fracture of shaft of left tibia, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.255Q | Nondisplaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.255R | Nondisplaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.255S | Nondisplaced comminuted fracture of shaft of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.256  | Nondisplaced comminuted fracture of shaft of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S82.256A | Nondisplaced comminuted fracture of shaft of unspecified tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.256B | Nondisplaced comminuted fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.256C | Nondisplaced comminuted fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.256D | Nondisplaced comminuted fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.256E | Nondisplaced comminuted fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.256F | Nondisplaced comminuted fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.256G | Nondisplaced comminuted fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.256H | Nondisplaced comminuted fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.256J | Nondisplaced comminuted fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.256K | Nondisplaced comminuted fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.256M | Nondisplaced comminuted fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.256N | Nondisplaced comminuted fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.256P | Nondisplaced comminuted fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.256Q | Nondisplaced comminuted fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.256R | Nondisplaced comminuted fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.256S | Nondisplaced comminuted fracture of shaft of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.26   | Segmental fracture of shaft of tibia   | Diagnosis     | ICD-10-CM |
| S82.261  | Displaced segmental fracture of shaft of right tibia   | Diagnosis     | ICD-10-CM |
| S82.261A | Displaced segmental fracture of shaft of right tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.261B | Displaced segmental fracture of shaft of right tibia, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.261C | Displaced segmental fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.261D | Displaced segmental fracture of shaft of right tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.261E | Displaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.261F | Displaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.261G | Displaced segmental fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.261H | Displaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.261J | Displaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.261K | Displaced segmental fracture of shaft of right tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.261M | Displaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.261N | Displaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.261P | Displaced segmental fracture of shaft of right tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.261Q | Displaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.261R | Displaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.261S | Displaced segmental fracture of shaft of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.262  | Displaced segmental fracture of shaft of left tibia  | Diagnosis     | ICD-10-CM |
| S82.262A | Displaced segmental fracture of shaft of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.262B | Displaced segmental fracture of shaft of left tibia, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.262C | Displaced segmental fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.262D | Displaced segmental fracture of shaft of left tibia, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S82.262E | Displaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S82.262F | Displaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.262G | Displaced segmental fracture of shaft of left tibia, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S82.262H | Displaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S82.262J | Displaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.262K | Displaced segmental fracture of shaft of left tibia, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S82.262M | Displaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.262N | Displaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.262P | Displaced segmental fracture of shaft of left tibia, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.262Q | Displaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.262R | Displaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.262S | Displaced segmental fracture of shaft of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.263  | Displaced segmental fracture of shaft of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S82.263A | Displaced segmental fracture of shaft of unspecified tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.263B | Displaced segmental fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.263C | Displaced segmental fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.263D | Displaced segmental fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.263E | Displaced segmental fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.263F | Displaced segmental fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.263G | Displaced segmental fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.263H | Displaced segmental fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.263J | Displaced segmental fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.263K | Displaced segmental fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.263M | Displaced segmental fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.263N | Displaced segmental fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.263P | Displaced segmental fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.263Q | Displaced segmental fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.263R | Displaced segmental fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.263S | Displaced segmental fracture of shaft of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.264  | Nondisplaced segmental fracture of shaft of right tibia  | Diagnosis     | ICD-10-CM |
| S82.264A | Nondisplaced segmental fracture of shaft of right tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.264B | Nondisplaced segmental fracture of shaft of right tibia, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.264C | Nondisplaced segmental fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S82.264D | Nondisplaced segmental fracture of shaft of right tibia, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.264E | Nondisplaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.264F | Nondisplaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.264G | Nondisplaced segmental fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.264H | Nondisplaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.264J | Nondisplaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.264K | Nondisplaced segmental fracture of shaft of right tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.264M | Nondisplaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.264N | Nondisplaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.264P | Nondisplaced segmental fracture of shaft of right tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.264Q | Nondisplaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.264R | Nondisplaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.264S | Nondisplaced segmental fracture of shaft of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.265  | Nondisplaced segmental fracture of shaft of left tibia  | Diagnosis     | ICD-10-CM |
| S82.265A | Nondisplaced segmental fracture of shaft of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.265B | Nondisplaced segmental fracture of shaft of left tibia, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.265C | Nondisplaced segmental fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.265D | Nondisplaced segmental fracture of shaft of left tibia, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S82.265E | Nondisplaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S82.265F | Nondisplaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.265G | Nondisplaced segmental fracture of shaft of left tibia, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S82.265H | Nondisplaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S82.265J | Nondisplaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.265K | Nondisplaced segmental fracture of shaft of left tibia, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S82.265M | Nondisplaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S82.265N | Nondisplaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S82.265P | Nondisplaced segmental fracture of shaft of left tibia, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.265Q | Nondisplaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.265R | Nondisplaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.265S | Nondisplaced segmental fracture of shaft of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.266  | Nondisplaced segmental fracture of shaft of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S82.266A | Nondisplaced segmental fracture of shaft of unspecified tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.266B | Nondisplaced segmental fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.266C | Nondisplaced segmental fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.266D | Nondisplaced segmental fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.266E | Nondisplaced segmental fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.266F | Nondisplaced segmental fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.266G | Nondisplaced segmental fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.266H | Nondisplaced segmental fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.266J | Nondisplaced segmental fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.266K | Nondisplaced segmental fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.266M | Nondisplaced segmental fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.266N | Nondisplaced segmental fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.266P | Nondisplaced segmental fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.266Q | Nondisplaced segmental fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.266R | Nondisplaced segmental fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.266S | Nondisplaced segmental fracture of shaft of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.29   | Other fracture of shaft of tibia  | Diagnosis     | ICD-10-CM |
| S82.291  | Other fracture of shaft of right tibia  | Diagnosis     | ICD-10-CM |
| S82.291A | Other fracture of shaft of right tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.291B | Other fracture of shaft of right tibia, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.291C | Other fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC  | Diagnosis     | ICD-10-CM |
| S82.291D | Other fracture of shaft of right tibia, subsequent encounter for closed fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S82.291E | Other fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with routine healing                                    | Diagnosis     | ICD-10-CM |
| S82.291F | Other fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.291G | Other fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.291H | Other fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.291J | Other fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.291K | Other fracture of shaft of right tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.291M | Other fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.291N | Other fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.291P | Other fracture of shaft of right tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.291Q | Other fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.291R | Other fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.291S | Other fracture of shaft of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.292  | Other fracture of shaft of left tibia  | Diagnosis     | ICD-10-CM |
| S82.292A | Other fracture of shaft of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.292B | Other fracture of shaft of left tibia, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.292C | Other fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.292D | Other fracture of shaft of left tibia, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S82.292E | Other fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S82.292F | Other fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.292G | Other fracture of shaft of left tibia, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S82.292H | Other fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S82.292J | Other fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.292K | Other fracture of shaft of left tibia, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S82.292M | Other fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S82.292N | Other fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S82.292P | Other fracture of shaft of left tibia, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S82.292Q | Other fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with malunion                     | Diagnosis     | ICD-10-CM |
| S82.292R | Other fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion         | Diagnosis     | ICD-10-CM |
| S82.292S | Other fracture of shaft of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.299  | Other fracture of shaft of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S82.299A | Other fracture of shaft of unspecified tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.299B | Other fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II                               | Diagnosis     | ICD-10-CM |
| S82.299C | Other fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.299D | Other fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with routine healing                          | Diagnosis     | ICD-10-CM |
| S82.299E | Other fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing               | Diagnosis     | ICD-10-CM |
| S82.299F | Other fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing     | Diagnosis     | ICD-10-CM |
| S82.299G | Other fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with delayed healing                          | Diagnosis     | ICD-10-CM |
| S82.299H | Other fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing               | Diagnosis     | ICD-10-CM |
| S82.299J | Other fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing     | Diagnosis     | ICD-10-CM |
| S82.299K | Other fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with nonunion                                 | Diagnosis     | ICD-10-CM |
| S82.299M | Other fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                      | Diagnosis     | ICD-10-CM |
| S82.299N | Other fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion            | Diagnosis     | ICD-10-CM |
| S82.299P | Other fracture of shaft of unspecified tibia, subsequent encounter for closed fracture with malunion                                 | Diagnosis     | ICD-10-CM |
| S82.299Q | Other fracture of shaft of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                      | Diagnosis     | ICD-10-CM |
| S82.299R | Other fracture of shaft of unspecified tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion            | Diagnosis     | ICD-10-CM |
| S82.299S | Other fracture of shaft of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.3    | Fracture of lower end of tibia   | Diagnosis     | ICD-10-CM |
| S82.30   | Unspecified fracture of lower end of tibia   | Diagnosis     | ICD-10-CM |
| S82.301  | Unspecified fracture of lower end of right tibia   | Diagnosis     | ICD-10-CM |
| S82.301A | Unspecified fracture of lower end of right tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.301B | Unspecified fracture of lower end of right tibia, initial encounter for open fracture type I or II                                   | Diagnosis     | ICD-10-CM |
| S82.301C | Unspecified fracture of lower end of right tibia, initial encounter for open fracture type IIIA, IIB, or IIC                         | Diagnosis     | ICD-10-CM |
| S82.301D | Unspecified fracture of lower end of right tibia, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S82.301E | Unspecified fracture of lower end of right tibia, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S82.301F | Unspecified fracture of lower end of right tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.301G | Unspecified fracture of lower end of right tibia, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S82.301H | Unspecified fracture of lower end of right tibia, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S82.301J | Unspecified fracture of lower end of right tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.301K | Unspecified fracture of lower end of right tibia, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S82.301M | Unspecified fracture of lower end of right tibia, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S82.301N | Unspecified fracture of lower end of right tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.301P | Unspecified fracture of lower end of right tibia, subsequent encounter for closed fracture with malunion                                     | Diagnosis     | ICD-10-CM |
| S82.301Q | Unspecified fracture of lower end of right tibia, subsequent encounter for open fracture type I or II with malunion                          | Diagnosis     | ICD-10-CM |
| S82.301R | Unspecified fracture of lower end of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion              | Diagnosis     | ICD-10-CM |
| S82.301S | Unspecified fracture of lower end of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.302  | Unspecified fracture of lower end of left tibia  | Diagnosis     | ICD-10-CM |
| S82.302A | Unspecified fracture of lower end of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.302B | Unspecified fracture of lower end of left tibia, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.302C | Unspecified fracture of lower end of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S82.302D | Unspecified fracture of lower end of left tibia, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S82.302E | Unspecified fracture of lower end of left tibia, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S82.302F | Unspecified fracture of lower end of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S82.302G | Unspecified fracture of lower end of left tibia, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S82.302H | Unspecified fracture of lower end of left tibia, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S82.302J | Unspecified fracture of lower end of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.302K | Unspecified fracture of lower end of left tibia, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.302M | Unspecified fracture of lower end of left tibia, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.302N | Unspecified fracture of lower end of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.302P | Unspecified fracture of lower end of left tibia, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.302Q | Unspecified fracture of lower end of left tibia, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.302R | Unspecified fracture of lower end of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.302S | Unspecified fracture of lower end of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.309  | Unspecified fracture of lower end of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S82.309A | Unspecified fracture of lower end of unspecified tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.309B | Unspecified fracture of lower end of unspecified tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.309C | Unspecified fracture of lower end of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.309D | Unspecified fracture of lower end of unspecified tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.309E | Unspecified fracture of lower end of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.309F | Unspecified fracture of lower end of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.309G | Unspecified fracture of lower end of unspecified tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.309H | Unspecified fracture of lower end of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.309J | Unspecified fracture of lower end of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.309K | Unspecified fracture of lower end of unspecified tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.309M | Unspecified fracture of lower end of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.309N | Unspecified fracture of lower end of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.309P | Unspecified fracture of lower end of unspecified tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.309Q | Unspecified fracture of lower end of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.309R | Unspecified fracture of lower end of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.309S | Unspecified fracture of lower end of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.31   | Torus fracture of lower end of tibia   | Diagnosis     | ICD-10-CM |
| S82.311  | Torus fracture of lower end of right tibia   | Diagnosis     | ICD-10-CM |
| S82.311A | Torus fracture of lower end of right tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.311D | Torus fracture of lower end of right tibia, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S82.311G | Torus fracture of lower end of right tibia, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S82.311K | Torus fracture of lower end of right tibia, subsequent encounter for fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S82.311P | Torus fracture of lower end of right tibia, subsequent encounter for fracture with malunion  | Diagnosis     | ICD-10-CM |
| S82.311S | Torus fracture of lower end of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.312  | Torus fracture of lower end of left tibia  | Diagnosis     | ICD-10-CM |
| S82.312A | Torus fracture of lower end of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.312D | Torus fracture of lower end of left tibia, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S82.312G | Torus fracture of lower end of left tibia, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.312K | Torus fracture of lower end of left tibia, subsequent encounter for fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S82.312P | Torus fracture of lower end of left tibia, subsequent encounter for fracture with malunion   | Diagnosis     | ICD-10-CM |
| S82.312S | Torus fracture of lower end of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.319  | Torus fracture of lower end of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S82.319A | Torus fracture of lower end of unspecified tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.319D | Torus fracture of lower end of unspecified tibia, subsequent encounter for fracture with routine healing                                     | Diagnosis     | ICD-10-CM |
| S82.319G | Torus fracture of lower end of unspecified tibia, subsequent encounter for fracture with delayed healing                                     | Diagnosis     | ICD-10-CM |
| S82.319K | Torus fracture of lower end of unspecified tibia, subsequent encounter for fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S82.319P | Torus fracture of lower end of unspecified tibia, subsequent encounter for fracture with malunion  | Diagnosis     | ICD-10-CM |
| S82.319S | Torus fracture of lower end of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.39   | Other fracture of lower end of tibia   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.391  | Other fracture of lower end of right tibia   | Diagnosis     | ICD-10-CM |
| S82.391A | Other fracture of lower end of right tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.391B | Other fracture of lower end of right tibia, initial encounter for open fracture type I or II                                   | Diagnosis     | ICD-10-CM |
| S82.391C | Other fracture of lower end of right tibia, initial encounter for open fracture type IIIA, IIB, or IIC                         | Diagnosis     | ICD-10-CM |
| S82.391D | Other fracture of lower end of right tibia, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S82.391E | Other fracture of lower end of right tibia, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S82.391F | Other fracture of lower end of right tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.391G | Other fracture of lower end of right tibia, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S82.391H | Other fracture of lower end of right tibia, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S82.391J | Other fracture of lower end of right tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.391K | Other fracture of lower end of right tibia, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S82.391M | Other fracture of lower end of right tibia, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S82.391N | Other fracture of lower end of right tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.391P | Other fracture of lower end of right tibia, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S82.391Q | Other fracture of lower end of right tibia, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S82.391R | Other fracture of lower end of right tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.391S | Other fracture of lower end of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.392  | Other fracture of lower end of left tibia  | Diagnosis     | ICD-10-CM |
| S82.392A | Other fracture of lower end of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.392B | Other fracture of lower end of left tibia, initial encounter for open fracture type I or II                                    | Diagnosis     | ICD-10-CM |
| S82.392C | Other fracture of lower end of left tibia, initial encounter for open fracture type IIIA, IIB, or IIC                          | Diagnosis     | ICD-10-CM |
| S82.392D | Other fracture of lower end of left tibia, subsequent encounter for closed fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S82.392E | Other fracture of lower end of left tibia, subsequent encounter for open fracture type I or II with routine healing            | Diagnosis     | ICD-10-CM |
| S82.392F | Other fracture of lower end of left tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.392G | Other fracture of lower end of left tibia, subsequent encounter for closed fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S82.392H | Other fracture of lower end of left tibia, subsequent encounter for open fracture type I or II with delayed healing            | Diagnosis     | ICD-10-CM |
| S82.392J | Other fracture of lower end of left tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.392K | Other fracture of lower end of left tibia, subsequent encounter for closed fracture with nonunion                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.392M | Other fracture of lower end of left tibia, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.392N | Other fracture of lower end of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.392P | Other fracture of lower end of left tibia, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.392Q | Other fracture of lower end of left tibia, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.392R | Other fracture of lower end of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.392S | Other fracture of lower end of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.399  | Other fracture of lower end of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S82.399A | Other fracture of lower end of unspecified tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.399B | Other fracture of lower end of unspecified tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.399C | Other fracture of lower end of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.399D | Other fracture of lower end of unspecified tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.399E | Other fracture of lower end of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.399F | Other fracture of lower end of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.399G | Other fracture of lower end of unspecified tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.399H | Other fracture of lower end of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.399J | Other fracture of lower end of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.399K | Other fracture of lower end of unspecified tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.399M | Other fracture of lower end of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.399N | Other fracture of lower end of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.399P | Other fracture of lower end of unspecified tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.399Q | Other fracture of lower end of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.399R | Other fracture of lower end of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.399S | Other fracture of lower end of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.4    | Fracture of shaft of fibula  | Diagnosis     | ICD-10-CM |
| S82.40   | Unspecified fracture of shaft of fibula  | Diagnosis     | ICD-10-CM |
| S82.401  | Unspecified fracture of shaft of right fibula  | Diagnosis     | ICD-10-CM |
| S82.401A | Unspecified fracture of shaft of right fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.401B | Unspecified fracture of shaft of right fibula, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.401C | Unspecified fracture of shaft of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.401D | Unspecified fracture of shaft of right fibula, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S82.401E | Unspecified fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S82.401F | Unspecified fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.401G | Unspecified fracture of shaft of right fibula, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S82.401H | Unspecified fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S82.401J | Unspecified fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.401K | Unspecified fracture of shaft of right fibula, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S82.401M | Unspecified fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S82.401N | Unspecified fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.401P | Unspecified fracture of shaft of right fibula, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S82.401Q | Unspecified fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S82.401R | Unspecified fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.401S | Unspecified fracture of shaft of right fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.402  | Unspecified fracture of shaft of left fibula  | Diagnosis     | ICD-10-CM |
| S82.402A | Unspecified fracture of shaft of left fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.402B | Unspecified fracture of shaft of left fibula, initial encounter for open fracture type I or II                                    | Diagnosis     | ICD-10-CM |
| S82.402C | Unspecified fracture of shaft of left fibula, initial encounter for open fracture type IIIA, IIB, or IIC                          | Diagnosis     | ICD-10-CM |
| S82.402D | Unspecified fracture of shaft of left fibula, subsequent encounter for closed fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S82.402E | Unspecified fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with routine healing            | Diagnosis     | ICD-10-CM |
| S82.402F | Unspecified fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.402G | Unspecified fracture of shaft of left fibula, subsequent encounter for closed fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S82.402H | Unspecified fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with delayed healing            | Diagnosis     | ICD-10-CM |
| S82.402J | Unspecified fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.402K | Unspecified fracture of shaft of left fibula, subsequent encounter for closed fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S82.402M | Unspecified fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S82.402N | Unspecified fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion         | Diagnosis     | ICD-10-CM |
| S82.402P | Unspecified fracture of shaft of left fibula, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.402Q | Unspecified fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with malunion                              | Diagnosis     | ICD-10-CM |
| S82.402R | Unspecified fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion                  | Diagnosis     | ICD-10-CM |
| S82.402S | Unspecified fracture of shaft of left fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.409  | Unspecified fracture of shaft of unspecified fibula  | Diagnosis     | ICD-10-CM |
| S82.409A | Unspecified fracture of shaft of unspecified fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.409B | Unspecified fracture of shaft of unspecified fibula, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.409C | Unspecified fracture of shaft of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S82.409D | Unspecified fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S82.409E | Unspecified fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S82.409F | Unspecified fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S82.409G | Unspecified fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S82.409H | Unspecified fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S82.409J | Unspecified fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S82.409K | Unspecified fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S82.409M | Unspecified fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with nonunion                       | Diagnosis     | ICD-10-CM |
| S82.409N | Unspecified fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion           | Diagnosis     | ICD-10-CM |
| S82.409P | Unspecified fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with malunion                                  | Diagnosis     | ICD-10-CM |
| S82.409Q | Unspecified fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with malunion                       | Diagnosis     | ICD-10-CM |
| S82.409R | Unspecified fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion           | Diagnosis     | ICD-10-CM |
| S82.409S | Unspecified fracture of shaft of unspecified fibula, sequela   | Diagnosis     | ICD-10-CM |
| S82.42   | Transverse fracture of shaft of fibula   | Diagnosis     | ICD-10-CM |
| S82.421  | Displaced transverse fracture of shaft of right fibula   | Diagnosis     | ICD-10-CM |
| S82.421A | Displaced transverse fracture of shaft of right fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.421B | Displaced transverse fracture of shaft of right fibula, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.421C | Displaced transverse fracture of shaft of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.421D | Displaced transverse fracture of shaft of right fibula, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.421E | Displaced transverse fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.421F | Displaced transverse fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.421G | Displaced transverse fracture of shaft of right fibula, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.421H | Displaced transverse fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.421J | Displaced transverse fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.421K | Displaced transverse fracture of shaft of right fibula, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.421M | Displaced transverse fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.421N | Displaced transverse fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.421P | Displaced transverse fracture of shaft of right fibula, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.421Q | Displaced transverse fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.421R | Displaced transverse fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.421S | Displaced transverse fracture of shaft of right fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.422  | Displaced transverse fracture of shaft of left fibula  | Diagnosis     | ICD-10-CM |
| S82.422A | Displaced transverse fracture of shaft of left fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.422B | Displaced transverse fracture of shaft of left fibula, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.422C | Displaced transverse fracture of shaft of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.422D | Displaced transverse fracture of shaft of left fibula, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S82.422E | Displaced transverse fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S82.422F | Displaced transverse fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.422G | Displaced transverse fracture of shaft of left fibula, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S82.422H | Displaced transverse fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S82.422J | Displaced transverse fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.422K | Displaced transverse fracture of shaft of left fibula, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S82.422M | Displaced transverse fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S82.422N | Displaced transverse fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S82.422P | Displaced transverse fracture of shaft of left fibula, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S82.422Q | Displaced transverse fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with malunion                     | Diagnosis     | ICD-10-CM |
| S82.422R | Displaced transverse fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion         | Diagnosis     | ICD-10-CM |
| S82.422S | Displaced transverse fracture of shaft of left fibula, sequela   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.423  | Displaced transverse fracture of shaft of unspecified fibula   | Diagnosis     | ICD-10-CM |
| S82.423A | Displaced transverse fracture of shaft of unspecified fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.423B | Displaced transverse fracture of shaft of unspecified fibula, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.423C | Displaced transverse fracture of shaft of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.423D | Displaced transverse fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.423E | Displaced transverse fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.423F | Displaced transverse fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.423G | Displaced transverse fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.423H | Displaced transverse fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.423J | Displaced transverse fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.423K | Displaced transverse fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.423M | Displaced transverse fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.423N | Displaced transverse fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.423P | Displaced transverse fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.423Q | Displaced transverse fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.423R | Displaced transverse fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.423S | Displaced transverse fracture of shaft of unspecified fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.424  | Nondisplaced transverse fracture of shaft of right fibula  | Diagnosis     | ICD-10-CM |
| S82.424A | Nondisplaced transverse fracture of shaft of right fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.424B | Nondisplaced transverse fracture of shaft of right fibula, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.424C | Nondisplaced transverse fracture of shaft of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S82.424D | Nondisplaced transverse fracture of shaft of right fibula, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S82.424E | Nondisplaced transverse fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S82.424F | Nondisplaced transverse fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S82.424G | Nondisplaced transverse fracture of shaft of right fibula, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S82.424H | Nondisplaced transverse fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.424J | Nondisplaced transverse fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.424K | Nondisplaced transverse fracture of shaft of right fibula, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.424M | Nondisplaced transverse fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.424N | Nondisplaced transverse fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.424P | Nondisplaced transverse fracture of shaft of right fibula, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.424Q | Nondisplaced transverse fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.424R | Nondisplaced transverse fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.424S | Nondisplaced transverse fracture of shaft of right fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.425  | Nondisplaced transverse fracture of shaft of left fibula  | Diagnosis     | ICD-10-CM |
| S82.425A | Nondisplaced transverse fracture of shaft of left fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.425B | Nondisplaced transverse fracture of shaft of left fibula, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.425C | Nondisplaced transverse fracture of shaft of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.425D | Nondisplaced transverse fracture of shaft of left fibula, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S82.425E | Nondisplaced transverse fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S82.425F | Nondisplaced transverse fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.425G | Nondisplaced transverse fracture of shaft of left fibula, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S82.425H | Nondisplaced transverse fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S82.425J | Nondisplaced transverse fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.425K | Nondisplaced transverse fracture of shaft of left fibula, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S82.425M | Nondisplaced transverse fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S82.425N | Nondisplaced transverse fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S82.425P | Nondisplaced transverse fracture of shaft of left fibula, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S82.425Q | Nondisplaced transverse fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with malunion                     | Diagnosis     | ICD-10-CM |
| S82.425R | Nondisplaced transverse fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion         | Diagnosis     | ICD-10-CM |
| S82.425S | Nondisplaced transverse fracture of shaft of left fibula, sequela   | Diagnosis     | ICD-10-CM |
| S82.426  | Nondisplaced transverse fracture of shaft of unspecified fibula   | Diagnosis     | ICD-10-CM |
| S82.426A | Nondisplaced transverse fracture of shaft of unspecified fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.426B | Nondisplaced transverse fracture of shaft of unspecified fibula, initial encounter for open fracture type I or II                                   | Diagnosis     | ICD-10-CM |
| S82.426C | Nondisplaced transverse fracture of shaft of unspecified fibula, initial encounter for open fracture type IIIA, IIB, or IIC                         | Diagnosis     | ICD-10-CM |
| S82.426D | Nondisplaced transverse fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S82.426E | Nondisplaced transverse fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S82.426F | Nondisplaced transverse fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.426G | Nondisplaced transverse fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S82.426H | Nondisplaced transverse fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S82.426J | Nondisplaced transverse fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.426K | Nondisplaced transverse fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S82.426M | Nondisplaced transverse fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S82.426N | Nondisplaced transverse fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.426P | Nondisplaced transverse fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S82.426Q | Nondisplaced transverse fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S82.426R | Nondisplaced transverse fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.426S | Nondisplaced transverse fracture of shaft of unspecified fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.43   | Oblique fracture of shaft of fibula   | Diagnosis     | ICD-10-CM |
| S82.431  | Displaced oblique fracture of shaft of right fibula   | Diagnosis     | ICD-10-CM |
| S82.431A | Displaced oblique fracture of shaft of right fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.431B | Displaced oblique fracture of shaft of right fibula, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S82.431C | Displaced oblique fracture of shaft of right fibula, initial encounter for open fracture type IIIA, IIB, or IIC                                     | Diagnosis     | ICD-10-CM |
| S82.431D | Displaced oblique fracture of shaft of right fibula, subsequent encounter for closed fracture with routine healing                                  | Diagnosis     | ICD-10-CM |
| S82.431E | Displaced oblique fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with routine healing                       | Diagnosis     | ICD-10-CM |
| S82.431F | Displaced oblique fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing             | Diagnosis     | ICD-10-CM |
| S82.431G | Displaced oblique fracture of shaft of right fibula, subsequent encounter for closed fracture with delayed healing                                  | Diagnosis     | ICD-10-CM |
| S82.431H | Displaced oblique fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with delayed healing                       | Diagnosis     | ICD-10-CM |
| S82.431J | Displaced oblique fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.431K | Displaced oblique fracture of shaft of right fibula, subsequent encounter for closed fracture with nonunion   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.431M | Displaced oblique fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S82.431N | Displaced oblique fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion       | Diagnosis     | ICD-10-CM |
| S82.431P | Displaced oblique fracture of shaft of right fibula, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S82.431Q | Displaced oblique fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S82.431R | Displaced oblique fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S82.431S | Displaced oblique fracture of shaft of right fibula, sequela   | Diagnosis     | ICD-10-CM |
| S82.432  | Displaced oblique fracture of shaft of left fibula   | Diagnosis     | ICD-10-CM |
| S82.432A | Displaced oblique fracture of shaft of left fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.432B | Displaced oblique fracture of shaft of left fibula, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.432C | Displaced oblique fracture of shaft of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.432D | Displaced oblique fracture of shaft of left fibula, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.432E | Displaced oblique fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.432F | Displaced oblique fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.432G | Displaced oblique fracture of shaft of left fibula, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.432H | Displaced oblique fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.432J | Displaced oblique fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.432K | Displaced oblique fracture of shaft of left fibula, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.432M | Displaced oblique fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.432N | Displaced oblique fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.432P | Displaced oblique fracture of shaft of left fibula, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.432Q | Displaced oblique fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.432R | Displaced oblique fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.432S | Displaced oblique fracture of shaft of left fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.433  | Displaced oblique fracture of shaft of unspecified fibula  | Diagnosis     | ICD-10-CM |
| S82.433A | Displaced oblique fracture of shaft of unspecified fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.433B | Displaced oblique fracture of shaft of unspecified fibula, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |
| S82.433C | Displaced oblique fracture of shaft of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.433D | Displaced oblique fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.433E | Displaced oblique fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.433F | Displaced oblique fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.433G | Displaced oblique fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.433H | Displaced oblique fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.433J | Displaced oblique fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.433K | Displaced oblique fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.433M | Displaced oblique fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.433N | Displaced oblique fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.433P | Displaced oblique fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.433Q | Displaced oblique fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.433R | Displaced oblique fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.433S | Displaced oblique fracture of shaft of unspecified fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.434  | Nondisplaced oblique fracture of shaft of right fibula  | Diagnosis     | ICD-10-CM |
| S82.434A | Nondisplaced oblique fracture of shaft of right fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.434B | Nondisplaced oblique fracture of shaft of right fibula, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.434C | Nondisplaced oblique fracture of shaft of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S82.434D | Nondisplaced oblique fracture of shaft of right fibula, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S82.434E | Nondisplaced oblique fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S82.434F | Nondisplaced oblique fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S82.434G | Nondisplaced oblique fracture of shaft of right fibula, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S82.434H | Nondisplaced oblique fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S82.434J | Nondisplaced oblique fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S82.434K | Nondisplaced oblique fracture of shaft of right fibula, subsequent encounter for closed fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S82.434M | Nondisplaced oblique fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with nonunion                       | Diagnosis     | ICD-10-CM |
| S82.434N | Nondisplaced oblique fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.434P | Nondisplaced oblique fracture of shaft of right fibula, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S82.434Q | Nondisplaced oblique fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S82.434R | Nondisplaced oblique fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S82.434S | Nondisplaced oblique fracture of shaft of right fibula, sequela   | Diagnosis     | ICD-10-CM |
| S82.435  | Nondisplaced oblique fracture of shaft of left fibula   | Diagnosis     | ICD-10-CM |
| S82.435A | Nondisplaced oblique fracture of shaft of left fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.435B | Nondisplaced oblique fracture of shaft of left fibula, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.435C | Nondisplaced oblique fracture of shaft of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.435D | Nondisplaced oblique fracture of shaft of left fibula, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.435E | Nondisplaced oblique fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.435F | Nondisplaced oblique fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.435G | Nondisplaced oblique fracture of shaft of left fibula, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.435H | Nondisplaced oblique fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.435J | Nondisplaced oblique fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.435K | Nondisplaced oblique fracture of shaft of left fibula, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.435M | Nondisplaced oblique fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.435N | Nondisplaced oblique fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.435P | Nondisplaced oblique fracture of shaft of left fibula, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.435Q | Nondisplaced oblique fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.435R | Nondisplaced oblique fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.435S | Nondisplaced oblique fracture of shaft of left fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.436  | Nondisplaced oblique fracture of shaft of unspecified fibula  | Diagnosis     | ICD-10-CM |
| S82.436A | Nondisplaced oblique fracture of shaft of unspecified fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.436B | Nondisplaced oblique fracture of shaft of unspecified fibula, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |
| S82.436C | Nondisplaced oblique fracture of shaft of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                  | Diagnosis     | ICD-10-CM |
| S82.436D | Nondisplaced oblique fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with routine healing                 | Diagnosis     | ICD-10-CM |
| S82.436E | Nondisplaced oblique fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with routine healing      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.436F | Nondisplaced oblique fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.436G | Nondisplaced oblique fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.436H | Nondisplaced oblique fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.436J | Nondisplaced oblique fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.436K | Nondisplaced oblique fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.436M | Nondisplaced oblique fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.436N | Nondisplaced oblique fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.436P | Nondisplaced oblique fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.436Q | Nondisplaced oblique fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.436R | Nondisplaced oblique fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.436S | Nondisplaced oblique fracture of shaft of unspecified fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.44   | Spiral fracture of shaft of fibula   | Diagnosis     | ICD-10-CM |
| S82.441  | Displaced spiral fracture of shaft of right fibula   | Diagnosis     | ICD-10-CM |
| S82.441A | Displaced spiral fracture of shaft of right fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.441B | Displaced spiral fracture of shaft of right fibula, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S82.441C | Displaced spiral fracture of shaft of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                                   | Diagnosis     | ICD-10-CM |
| S82.441D | Displaced spiral fracture of shaft of right fibula, subsequent encounter for closed fracture with routine healing                                  | Diagnosis     | ICD-10-CM |
| S82.441E | Displaced spiral fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with routine healing                       | Diagnosis     | ICD-10-CM |
| S82.441F | Displaced spiral fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing           | Diagnosis     | ICD-10-CM |
| S82.441G | Displaced spiral fracture of shaft of right fibula, subsequent encounter for closed fracture with delayed healing                                  | Diagnosis     | ICD-10-CM |
| S82.441H | Displaced spiral fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with delayed healing                       | Diagnosis     | ICD-10-CM |
| S82.441J | Displaced spiral fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing           | Diagnosis     | ICD-10-CM |
| S82.441K | Displaced spiral fracture of shaft of right fibula, subsequent encounter for closed fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S82.441M | Displaced spiral fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with nonunion                              | Diagnosis     | ICD-10-CM |
| S82.441N | Displaced spiral fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion                  | Diagnosis     | ICD-10-CM |
| S82.441P | Displaced spiral fracture of shaft of right fibula, subsequent encounter for closed fracture with malunion   | Diagnosis     | ICD-10-CM |
| S82.441Q | Displaced spiral fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with malunion                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.441R | Displaced spiral fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion              | Diagnosis     | ICD-10-CM |
| S82.441S | Displaced spiral fracture of shaft of right fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.442  | Displaced spiral fracture of shaft of left fibula  | Diagnosis     | ICD-10-CM |
| S82.442A | Displaced spiral fracture of shaft of left fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.442B | Displaced spiral fracture of shaft of left fibula, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.442C | Displaced spiral fracture of shaft of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S82.442D | Displaced spiral fracture of shaft of left fibula, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S82.442E | Displaced spiral fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S82.442F | Displaced spiral fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S82.442G | Displaced spiral fracture of shaft of left fibula, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S82.442H | Displaced spiral fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S82.442J | Displaced spiral fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.442K | Displaced spiral fracture of shaft of left fibula, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.442M | Displaced spiral fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.442N | Displaced spiral fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.442P | Displaced spiral fracture of shaft of left fibula, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.442Q | Displaced spiral fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.442R | Displaced spiral fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.442S | Displaced spiral fracture of shaft of left fibula, sequela   | Diagnosis     | ICD-10-CM |
| S82.443  | Displaced spiral fracture of shaft of unspecified fibula   | Diagnosis     | ICD-10-CM |
| S82.443A | Displaced spiral fracture of shaft of unspecified fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.443B | Displaced spiral fracture of shaft of unspecified fibula, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.443C | Displaced spiral fracture of shaft of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.443D | Displaced spiral fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.443E | Displaced spiral fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.443F | Displaced spiral fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.443G | Displaced spiral fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.443H | Displaced spiral fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.443J | Displaced spiral fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.443K | Displaced spiral fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.443M | Displaced spiral fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.443N | Displaced spiral fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.443P | Displaced spiral fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.443Q | Displaced spiral fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.443R | Displaced spiral fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.443S | Displaced spiral fracture of shaft of unspecified fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.444  | Nondisplaced spiral fracture of shaft of right fibula  | Diagnosis     | ICD-10-CM |
| S82.444A | Nondisplaced spiral fracture of shaft of right fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.444B | Nondisplaced spiral fracture of shaft of right fibula, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.444C | Nondisplaced spiral fracture of shaft of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S82.444D | Nondisplaced spiral fracture of shaft of right fibula, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S82.444E | Nondisplaced spiral fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S82.444F | Nondisplaced spiral fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S82.444G | Nondisplaced spiral fracture of shaft of right fibula, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S82.444H | Nondisplaced spiral fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S82.444J | Nondisplaced spiral fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S82.444K | Nondisplaced spiral fracture of shaft of right fibula, subsequent encounter for closed fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S82.444M | Nondisplaced spiral fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with nonunion                       | Diagnosis     | ICD-10-CM |
| S82.444N | Nondisplaced spiral fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion           | Diagnosis     | ICD-10-CM |
| S82.444P | Nondisplaced spiral fracture of shaft of right fibula, subsequent encounter for closed fracture with malunion                                  | Diagnosis     | ICD-10-CM |
| S82.444Q | Nondisplaced spiral fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with malunion                       | Diagnosis     | ICD-10-CM |
| S82.444R | Nondisplaced spiral fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion           | Diagnosis     | ICD-10-CM |
| S82.444S | Nondisplaced spiral fracture of shaft of right fibula, sequela   | Diagnosis     | ICD-10-CM |
| S82.445  | Nondisplaced spiral fracture of shaft of left fibula   | Diagnosis     | ICD-10-CM |
| S82.445A | Nondisplaced spiral fracture of shaft of left fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.445B | Nondisplaced spiral fracture of shaft of left fibula, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.445C | Nondisplaced spiral fracture of shaft of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S82.445D | Nondisplaced spiral fracture of shaft of left fibula, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S82.445E | Nondisplaced spiral fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S82.445F | Nondisplaced spiral fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S82.445G | Nondisplaced spiral fracture of shaft of left fibula, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S82.445H | Nondisplaced spiral fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S82.445J | Nondisplaced spiral fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.445K | Nondisplaced spiral fracture of shaft of left fibula, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.445M | Nondisplaced spiral fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.445N | Nondisplaced spiral fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.445P | Nondisplaced spiral fracture of shaft of left fibula, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.445Q | Nondisplaced spiral fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.445R | Nondisplaced spiral fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.445S | Nondisplaced spiral fracture of shaft of left fibula, sequela   | Diagnosis     | ICD-10-CM |
| S82.446  | Nondisplaced spiral fracture of shaft of unspecified fibula   | Diagnosis     | ICD-10-CM |
| S82.446A | Nondisplaced spiral fracture of shaft of unspecified fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.446B | Nondisplaced spiral fracture of shaft of unspecified fibula, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.446C | Nondisplaced spiral fracture of shaft of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.446D | Nondisplaced spiral fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.446E | Nondisplaced spiral fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.446F | Nondisplaced spiral fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.446G | Nondisplaced spiral fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.446H | Nondisplaced spiral fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.446J | Nondisplaced spiral fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.446K | Nondisplaced spiral fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.446M | Nondisplaced spiral fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.446N | Nondisplaced spiral fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion   | Diagnosis     | ICD-10-CM |
| S82.446P | Nondisplaced spiral fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with malunion                          | Diagnosis     | ICD-10-CM |
| S82.446Q | Nondisplaced spiral fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with malunion               | Diagnosis     | ICD-10-CM |
| S82.446R | Nondisplaced spiral fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion   | Diagnosis     | ICD-10-CM |
| S82.446S | Nondisplaced spiral fracture of shaft of unspecified fibula, sequela   | Diagnosis     | ICD-10-CM |
| S82.45   | Comminuted fracture of shaft of fibula   | Diagnosis     | ICD-10-CM |
| S82.451  | Displaced comminuted fracture of shaft of right fibula   | Diagnosis     | ICD-10-CM |
| S82.451A | Displaced comminuted fracture of shaft of right fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.451B | Displaced comminuted fracture of shaft of right fibula, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.451C | Displaced comminuted fracture of shaft of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.451D | Displaced comminuted fracture of shaft of right fibula, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.451E | Displaced comminuted fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.451F | Displaced comminuted fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.451G | Displaced comminuted fracture of shaft of right fibula, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.451H | Displaced comminuted fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.451J | Displaced comminuted fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.451K | Displaced comminuted fracture of shaft of right fibula, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.451M | Displaced comminuted fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.451N | Displaced comminuted fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.451P | Displaced comminuted fracture of shaft of right fibula, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.451Q | Displaced comminuted fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.451R | Displaced comminuted fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.451S | Displaced comminuted fracture of shaft of right fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.452  | Displaced comminuted fracture of shaft of left fibula  | Diagnosis     | ICD-10-CM |
| S82.452A | Displaced comminuted fracture of shaft of left fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.452B | Displaced comminuted fracture of shaft of left fibula, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.452C | Displaced comminuted fracture of shaft of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.452D | Displaced comminuted fracture of shaft of left fibula, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.452E | Displaced comminuted fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S82.452F | Displaced comminuted fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S82.452G | Displaced comminuted fracture of shaft of left fibula, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S82.452H | Displaced comminuted fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S82.452J | Displaced comminuted fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.452K | Displaced comminuted fracture of shaft of left fibula, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.452M | Displaced comminuted fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.452N | Displaced comminuted fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.452P | Displaced comminuted fracture of shaft of left fibula, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.452Q | Displaced comminuted fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.452R | Displaced comminuted fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.452S | Displaced comminuted fracture of shaft of left fibula, sequela   | Diagnosis     | ICD-10-CM |
| S82.453  | Displaced comminuted fracture of shaft of unspecified fibula   | Diagnosis     | ICD-10-CM |
| S82.453A | Displaced comminuted fracture of shaft of unspecified fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.453B | Displaced comminuted fracture of shaft of unspecified fibula, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.453C | Displaced comminuted fracture of shaft of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.453D | Displaced comminuted fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.453E | Displaced comminuted fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.453F | Displaced comminuted fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.453G | Displaced comminuted fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.453H | Displaced comminuted fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.453J | Displaced comminuted fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.453K | Displaced comminuted fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.453M | Displaced comminuted fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.453N | Displaced comminuted fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.453P | Displaced comminuted fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.453Q | Displaced comminuted fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with malunion                 | Diagnosis     | ICD-10-CM |
| S82.453R | Displaced comminuted fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion     | Diagnosis     | ICD-10-CM |
| S82.453S | Displaced comminuted fracture of shaft of unspecified fibula, sequela   | Diagnosis     | ICD-10-CM |
| S82.454  | Nondisplaced comminuted fracture of shaft of right fibula   | Diagnosis     | ICD-10-CM |
| S82.454A | Nondisplaced comminuted fracture of shaft of right fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.454B | Nondisplaced comminuted fracture of shaft of right fibula, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.454C | Nondisplaced comminuted fracture of shaft of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.454D | Nondisplaced comminuted fracture of shaft of right fibula, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.454E | Nondisplaced comminuted fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.454F | Nondisplaced comminuted fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.454G | Nondisplaced comminuted fracture of shaft of right fibula, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.454H | Nondisplaced comminuted fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.454J | Nondisplaced comminuted fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.454K | Nondisplaced comminuted fracture of shaft of right fibula, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.454M | Nondisplaced comminuted fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.454N | Nondisplaced comminuted fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.454P | Nondisplaced comminuted fracture of shaft of right fibula, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.454Q | Nondisplaced comminuted fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.454R | Nondisplaced comminuted fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.454S | Nondisplaced comminuted fracture of shaft of right fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.455  | Nondisplaced comminuted fracture of shaft of left fibula  | Diagnosis     | ICD-10-CM |
| S82.455A | Nondisplaced comminuted fracture of shaft of left fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.455B | Nondisplaced comminuted fracture of shaft of left fibula, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.455C | Nondisplaced comminuted fracture of shaft of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.455D | Nondisplaced comminuted fracture of shaft of left fibula, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S82.455E | Nondisplaced comminuted fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S82.455F | Nondisplaced comminuted fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.455G | Nondisplaced comminuted fracture of shaft of left fibula, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S82.455H | Nondisplaced comminuted fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S82.455J | Nondisplaced comminuted fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.455K | Nondisplaced comminuted fracture of shaft of left fibula, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.455M | Nondisplaced comminuted fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.455N | Nondisplaced comminuted fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.455P | Nondisplaced comminuted fracture of shaft of left fibula, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.455Q | Nondisplaced comminuted fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.455R | Nondisplaced comminuted fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.455S | Nondisplaced comminuted fracture of shaft of left fibula, sequela   | Diagnosis     | ICD-10-CM |
| S82.456  | Nondisplaced comminuted fracture of shaft of unspecified fibula   | Diagnosis     | ICD-10-CM |
| S82.456A | Nondisplaced comminuted fracture of shaft of unspecified fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.456B | Nondisplaced comminuted fracture of shaft of unspecified fibula, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.456C | Nondisplaced comminuted fracture of shaft of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.456D | Nondisplaced comminuted fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.456E | Nondisplaced comminuted fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.456F | Nondisplaced comminuted fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.456G | Nondisplaced comminuted fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.456H | Nondisplaced comminuted fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.456J | Nondisplaced comminuted fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.456K | Nondisplaced comminuted fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.456M | Nondisplaced comminuted fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.456N | Nondisplaced comminuted fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.456P | Nondisplaced comminuted fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.456Q | Nondisplaced comminuted fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.456R | Nondisplaced comminuted fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.456S | Nondisplaced comminuted fracture of shaft of unspecified fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.46   | Segmental fracture of shaft of fibula   | Diagnosis     | ICD-10-CM |
| S82.461  | Displaced segmental fracture of shaft of right fibula   | Diagnosis     | ICD-10-CM |
| S82.461A | Displaced segmental fracture of shaft of right fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.461B | Displaced segmental fracture of shaft of right fibula, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.461C | Displaced segmental fracture of shaft of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.461D | Displaced segmental fracture of shaft of right fibula, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.461E | Displaced segmental fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.461F | Displaced segmental fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.461G | Displaced segmental fracture of shaft of right fibula, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.461H | Displaced segmental fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.461J | Displaced segmental fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.461K | Displaced segmental fracture of shaft of right fibula, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.461M | Displaced segmental fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.461N | Displaced segmental fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.461P | Displaced segmental fracture of shaft of right fibula, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.461Q | Displaced segmental fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.461R | Displaced segmental fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.461S | Displaced segmental fracture of shaft of right fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.462  | Displaced segmental fracture of shaft of left fibula  | Diagnosis     | ICD-10-CM |
| S82.462A | Displaced segmental fracture of shaft of left fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.462B | Displaced segmental fracture of shaft of left fibula, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.462C | Displaced segmental fracture of shaft of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.462D | Displaced segmental fracture of shaft of left fibula, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S82.462E | Displaced segmental fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S82.462F | Displaced segmental fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.462G | Displaced segmental fracture of shaft of left fibula, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S82.462H | Displaced segmental fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.462J | Displaced segmental fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.462K | Displaced segmental fracture of shaft of left fibula, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.462M | Displaced segmental fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.462N | Displaced segmental fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.462P | Displaced segmental fracture of shaft of left fibula, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.462Q | Displaced segmental fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.462R | Displaced segmental fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.462S | Displaced segmental fracture of shaft of left fibula, sequela   | Diagnosis     | ICD-10-CM |
| S82.463  | Displaced segmental fracture of shaft of unspecified fibula   | Diagnosis     | ICD-10-CM |
| S82.463A | Displaced segmental fracture of shaft of unspecified fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.463B | Displaced segmental fracture of shaft of unspecified fibula, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.463C | Displaced segmental fracture of shaft of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.463D | Displaced segmental fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.463E | Displaced segmental fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.463F | Displaced segmental fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.463G | Displaced segmental fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.463H | Displaced segmental fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.463J | Displaced segmental fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.463K | Displaced segmental fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.463M | Displaced segmental fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.463N | Displaced segmental fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.463P | Displaced segmental fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.463Q | Displaced segmental fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.463R | Displaced segmental fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.463S | Displaced segmental fracture of shaft of unspecified fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.464  | Nondisplaced segmental fracture of shaft of right fibula  | Diagnosis     | ICD-10-CM |
| S82.464A | Nondisplaced segmental fracture of shaft of right fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.464B | Nondisplaced segmental fracture of shaft of right fibula, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.464C | Nondisplaced segmental fracture of shaft of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.464D | Nondisplaced segmental fracture of shaft of right fibula, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.464E | Nondisplaced segmental fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.464F | Nondisplaced segmental fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.464G | Nondisplaced segmental fracture of shaft of right fibula, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.464H | Nondisplaced segmental fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.464J | Nondisplaced segmental fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.464K | Nondisplaced segmental fracture of shaft of right fibula, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.464M | Nondisplaced segmental fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.464N | Nondisplaced segmental fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.464P | Nondisplaced segmental fracture of shaft of right fibula, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.464Q | Nondisplaced segmental fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.464R | Nondisplaced segmental fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.464S | Nondisplaced segmental fracture of shaft of right fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.465  | Nondisplaced segmental fracture of shaft of left fibula  | Diagnosis     | ICD-10-CM |
| S82.465A | Nondisplaced segmental fracture of shaft of left fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.465B | Nondisplaced segmental fracture of shaft of left fibula, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.465C | Nondisplaced segmental fracture of shaft of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.465D | Nondisplaced segmental fracture of shaft of left fibula, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S82.465E | Nondisplaced segmental fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S82.465F | Nondisplaced segmental fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.465G | Nondisplaced segmental fracture of shaft of left fibula, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S82.465H | Nondisplaced segmental fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S82.465J | Nondisplaced segmental fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.465K | Nondisplaced segmental fracture of shaft of left fibula, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.465M | Nondisplaced segmental fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.465N | Nondisplaced segmental fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.465P | Nondisplaced segmental fracture of shaft of left fibula, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.465Q | Nondisplaced segmental fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.465R | Nondisplaced segmental fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.465S | Nondisplaced segmental fracture of shaft of left fibula, sequela   | Diagnosis     | ICD-10-CM |
| S82.466  | Nondisplaced segmental fracture of shaft of unspecified fibula   | Diagnosis     | ICD-10-CM |
| S82.466A | Nondisplaced segmental fracture of shaft of unspecified fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.466B | Nondisplaced segmental fracture of shaft of unspecified fibula, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.466C | Nondisplaced segmental fracture of shaft of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.466D | Nondisplaced segmental fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.466E | Nondisplaced segmental fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.466F | Nondisplaced segmental fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.466G | Nondisplaced segmental fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.466H | Nondisplaced segmental fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.466J | Nondisplaced segmental fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.466K | Nondisplaced segmental fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.466M | Nondisplaced segmental fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.466N | Nondisplaced segmental fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.466P | Nondisplaced segmental fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.466Q | Nondisplaced segmental fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.466R | Nondisplaced segmental fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.466S | Nondisplaced segmental fracture of shaft of unspecified fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.49   | Other fracture of shaft of fibula  | Diagnosis     | ICD-10-CM |
| S82.491  | Other fracture of shaft of right fibula  | Diagnosis     | ICD-10-CM |
| S82.491A | Other fracture of shaft of right fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.491B | Other fracture of shaft of right fibula, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.491C | Other fracture of shaft of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.491D | Other fracture of shaft of right fibula, subsequent encounter for closed fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S82.491E | Other fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with routine healing           | Diagnosis     | ICD-10-CM |
| S82.491F | Other fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.491G | Other fracture of shaft of right fibula, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S82.491H | Other fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S82.491J | Other fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.491K | Other fracture of shaft of right fibula, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S82.491M | Other fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S82.491N | Other fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.491P | Other fracture of shaft of right fibula, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S82.491Q | Other fracture of shaft of right fibula, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S82.491R | Other fracture of shaft of right fibula, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.491S | Other fracture of shaft of right fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.492  | Other fracture of shaft of left fibula  | Diagnosis     | ICD-10-CM |
| S82.492A | Other fracture of shaft of left fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.492B | Other fracture of shaft of left fibula, initial encounter for open fracture type I or II                                    | Diagnosis     | ICD-10-CM |
| S82.492C | Other fracture of shaft of left fibula, initial encounter for open fracture type IIIA, IIB, or IIC                          | Diagnosis     | ICD-10-CM |
| S82.492D | Other fracture of shaft of left fibula, subsequent encounter for closed fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S82.492E | Other fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with routine healing            | Diagnosis     | ICD-10-CM |
| S82.492F | Other fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.492G | Other fracture of shaft of left fibula, subsequent encounter for closed fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S82.492H | Other fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with delayed healing            | Diagnosis     | ICD-10-CM |
| S82.492J | Other fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.492K | Other fracture of shaft of left fibula, subsequent encounter for closed fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S82.492M | Other fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S82.492N | Other fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion         | Diagnosis     | ICD-10-CM |
| S82.492P | Other fracture of shaft of left fibula, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.492Q | Other fracture of shaft of left fibula, subsequent encounter for open fracture type I or II with malunion                                   | Diagnosis     | ICD-10-CM |
| S82.492R | Other fracture of shaft of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion                       | Diagnosis     | ICD-10-CM |
| S82.492S | Other fracture of shaft of left fibula, sequela   | Diagnosis     | ICD-10-CM |
| S82.499  | Other fracture of shaft of unspecified fibula   | Diagnosis     | ICD-10-CM |
| S82.499A | Other fracture of shaft of unspecified fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.499B | Other fracture of shaft of unspecified fibula, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S82.499C | Other fracture of shaft of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                                 | Diagnosis     | ICD-10-CM |
| S82.499D | Other fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with routine healing                                | Diagnosis     | ICD-10-CM |
| S82.499E | Other fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with routine healing                     | Diagnosis     | ICD-10-CM |
| S82.499F | Other fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing         | Diagnosis     | ICD-10-CM |
| S82.499G | Other fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with delayed healing                                | Diagnosis     | ICD-10-CM |
| S82.499H | Other fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with delayed healing                     | Diagnosis     | ICD-10-CM |
| S82.499J | Other fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing         | Diagnosis     | ICD-10-CM |
| S82.499K | Other fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with nonunion                                       | Diagnosis     | ICD-10-CM |
| S82.499M | Other fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with nonunion                            | Diagnosis     | ICD-10-CM |
| S82.499N | Other fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion                | Diagnosis     | ICD-10-CM |
| S82.499P | Other fracture of shaft of unspecified fibula, subsequent encounter for closed fracture with malunion                                       | Diagnosis     | ICD-10-CM |
| S82.499Q | Other fracture of shaft of unspecified fibula, subsequent encounter for open fracture type I or II with malunion                            | Diagnosis     | ICD-10-CM |
| S82.499R | Other fracture of shaft of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion                | Diagnosis     | ICD-10-CM |
| S82.499S | Other fracture of shaft of unspecified fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.5    | Fracture of medial malleolus  | Diagnosis     | ICD-10-CM |
| S82.51   | Displaced fracture of medial malleolus of right tibia   | Diagnosis     | ICD-10-CM |
| S82.51XA | Displaced fracture of medial malleolus of right tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.51XB | Displaced fracture of medial malleolus of right tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.51XC | Displaced fracture of medial malleolus of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.51XD | Displaced fracture of medial malleolus of right tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.51XE | Displaced fracture of medial malleolus of right tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.51XF | Displaced fracture of medial malleolus of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.51XG | Displaced fracture of medial malleolus of right tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.51XH | Displaced fracture of medial malleolus of right tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.51XJ | Displaced fracture of medial malleolus of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.51XK | Displaced fracture of medial malleolus of right tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.51XM | Displaced fracture of medial malleolus of right tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.51XN | Displaced fracture of medial malleolus of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.51XP | Displaced fracture of medial malleolus of right tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.51XQ | Displaced fracture of medial malleolus of right tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.51XR | Displaced fracture of medial malleolus of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.51XS | Displaced fracture of medial malleolus of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.52   | Displaced fracture of medial malleolus of left tibia  | Diagnosis     | ICD-10-CM |
| S82.52XA | Displaced fracture of medial malleolus of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.52XB | Displaced fracture of medial malleolus of left tibia, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.52XC | Displaced fracture of medial malleolus of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.52XD | Displaced fracture of medial malleolus of left tibia, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S82.52XE | Displaced fracture of medial malleolus of left tibia, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S82.52XF | Displaced fracture of medial malleolus of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.52XG | Displaced fracture of medial malleolus of left tibia, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S82.52XH | Displaced fracture of medial malleolus of left tibia, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S82.52XJ | Displaced fracture of medial malleolus of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.52XK | Displaced fracture of medial malleolus of left tibia, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S82.52XM | Displaced fracture of medial malleolus of left tibia, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S82.52XN | Displaced fracture of medial malleolus of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |
| S82.52XP | Displaced fracture of medial malleolus of left tibia, subsequent encounter for closed fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S82.52XQ | Displaced fracture of medial malleolus of left tibia, subsequent encounter for open fracture type I or II with malunion                     | Diagnosis     | ICD-10-CM |
| S82.52XR | Displaced fracture of medial malleolus of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion         | Diagnosis     | ICD-10-CM |
| S82.52XS | Displaced fracture of medial malleolus of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.53   | Displaced fracture of medial malleolus of unspecified tibia   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.53XA | Displaced fracture of medial malleolus of unspecified tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.53XB | Displaced fracture of medial malleolus of unspecified tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.53XC | Displaced fracture of medial malleolus of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.53XD | Displaced fracture of medial malleolus of unspecified tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.53XE | Displaced fracture of medial malleolus of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.53XF | Displaced fracture of medial malleolus of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.53XG | Displaced fracture of medial malleolus of unspecified tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.53XH | Displaced fracture of medial malleolus of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.53XJ | Displaced fracture of medial malleolus of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.53XK | Displaced fracture of medial malleolus of unspecified tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.53XM | Displaced fracture of medial malleolus of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.53XN | Displaced fracture of medial malleolus of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.53XP | Displaced fracture of medial malleolus of unspecified tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.53XQ | Displaced fracture of medial malleolus of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.53XR | Displaced fracture of medial malleolus of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.53XS | Displaced fracture of medial malleolus of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.54   | Nondisplaced fracture of medial malleolus of right tibia  | Diagnosis     | ICD-10-CM |
| S82.54XA | Nondisplaced fracture of medial malleolus of right tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.54XB | Nondisplaced fracture of medial malleolus of right tibia, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.54XC | Nondisplaced fracture of medial malleolus of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S82.54XD | Nondisplaced fracture of medial malleolus of right tibia, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S82.54XE | Nondisplaced fracture of medial malleolus of right tibia, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S82.54XF | Nondisplaced fracture of medial malleolus of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S82.54XG | Nondisplaced fracture of medial malleolus of right tibia, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S82.54XH | Nondisplaced fracture of medial malleolus of right tibia, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S82.54XJ | Nondisplaced fracture of medial malleolus of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.54XK | Nondisplaced fracture of medial malleolus of right tibia, subsequent encounter for closed fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S82.54XM | Nondisplaced fracture of medial malleolus of right tibia, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S82.54XN | Nondisplaced fracture of medial malleolus of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion       | Diagnosis     | ICD-10-CM |
| S82.54XP | Nondisplaced fracture of medial malleolus of right tibia, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S82.54XQ | Nondisplaced fracture of medial malleolus of right tibia, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S82.54XR | Nondisplaced fracture of medial malleolus of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S82.54XS | Nondisplaced fracture of medial malleolus of right tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.55   | Nondisplaced fracture of medial malleolus of left tibia   | Diagnosis     | ICD-10-CM |
| S82.55XA | Nondisplaced fracture of medial malleolus of left tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.55XB | Nondisplaced fracture of medial malleolus of left tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.55XC | Nondisplaced fracture of medial malleolus of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.55XD | Nondisplaced fracture of medial malleolus of left tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.55XE | Nondisplaced fracture of medial malleolus of left tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.55XF | Nondisplaced fracture of medial malleolus of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.55XG | Nondisplaced fracture of medial malleolus of left tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.55XH | Nondisplaced fracture of medial malleolus of left tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.55XJ | Nondisplaced fracture of medial malleolus of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.55XK | Nondisplaced fracture of medial malleolus of left tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.55XM | Nondisplaced fracture of medial malleolus of left tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.55XN | Nondisplaced fracture of medial malleolus of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.55XP | Nondisplaced fracture of medial malleolus of left tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.55XQ | Nondisplaced fracture of medial malleolus of left tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.55XR | Nondisplaced fracture of medial malleolus of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.55XS | Nondisplaced fracture of medial malleolus of left tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.56   | Nondisplaced fracture of medial malleolus of unspecified tibia  | Diagnosis     | ICD-10-CM |
| S82.56XA | Nondisplaced fracture of medial malleolus of unspecified tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.56XB | Nondisplaced fracture of medial malleolus of unspecified tibia, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.56XC | Nondisplaced fracture of medial malleolus of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.56XD | Nondisplaced fracture of medial malleolus of unspecified tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.56XE | Nondisplaced fracture of medial malleolus of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.56XF | Nondisplaced fracture of medial malleolus of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.56XG | Nondisplaced fracture of medial malleolus of unspecified tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.56XH | Nondisplaced fracture of medial malleolus of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.56XJ | Nondisplaced fracture of medial malleolus of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.56XK | Nondisplaced fracture of medial malleolus of unspecified tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.56XM | Nondisplaced fracture of medial malleolus of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.56XN | Nondisplaced fracture of medial malleolus of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.56XP | Nondisplaced fracture of medial malleolus of unspecified tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.56XQ | Nondisplaced fracture of medial malleolus of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.56XR | Nondisplaced fracture of medial malleolus of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.56XS | Nondisplaced fracture of medial malleolus of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.6    | Fracture of lateral malleolus  | Diagnosis     | ICD-10-CM |
| S82.61   | Displaced fracture of lateral malleolus of right fibula  | Diagnosis     | ICD-10-CM |
| S82.61XA | Displaced fracture of lateral malleolus of right fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.61XB | Displaced fracture of lateral malleolus of right fibula, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.61XC | Displaced fracture of lateral malleolus of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S82.61XD | Displaced fracture of lateral malleolus of right fibula, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S82.61XE | Displaced fracture of lateral malleolus of right fibula, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S82.61XF | Displaced fracture of lateral malleolus of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S82.61XG | Displaced fracture of lateral malleolus of right fibula, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S82.61XH | Displaced fracture of lateral malleolus of right fibula, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S82.61XJ | Displaced fracture of lateral malleolus of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.61XK | Displaced fracture of lateral malleolus of right fibula, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.61XM | Displaced fracture of lateral malleolus of right fibula, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.61XN | Displaced fracture of lateral malleolus of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion       | Diagnosis     | ICD-10-CM |
| S82.61XP | Displaced fracture of lateral malleolus of right fibula, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S82.61XQ | Displaced fracture of lateral malleolus of right fibula, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S82.61XR | Displaced fracture of lateral malleolus of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S82.61XS | Displaced fracture of lateral malleolus of right fibula, sequela   | Diagnosis     | ICD-10-CM |
| S82.62   | Displaced fracture of lateral malleolus of left fibula   | Diagnosis     | ICD-10-CM |
| S82.62XA | Displaced fracture of lateral malleolus of left fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.62XB | Displaced fracture of lateral malleolus of left fibula, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.62XC | Displaced fracture of lateral malleolus of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.62XD | Displaced fracture of lateral malleolus of left fibula, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.62XE | Displaced fracture of lateral malleolus of left fibula, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.62XF | Displaced fracture of lateral malleolus of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.62XG | Displaced fracture of lateral malleolus of left fibula, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.62XH | Displaced fracture of lateral malleolus of left fibula, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.62XJ | Displaced fracture of lateral malleolus of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.62XK | Displaced fracture of lateral malleolus of left fibula, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.62XM | Displaced fracture of lateral malleolus of left fibula, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.62XN | Displaced fracture of lateral malleolus of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.62XP | Displaced fracture of lateral malleolus of left fibula, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.62XQ | Displaced fracture of lateral malleolus of left fibula, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.62XR | Displaced fracture of lateral malleolus of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.62XS | Displaced fracture of lateral malleolus of left fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.63   | Displaced fracture of lateral malleolus of unspecified fibula  | Diagnosis     | ICD-10-CM |
| S82.63XA | Displaced fracture of lateral malleolus of unspecified fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.63XB | Displaced fracture of lateral malleolus of unspecified fibula, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |
| S82.63XC | Displaced fracture of lateral malleolus of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                  | Diagnosis     | ICD-10-CM |
| S82.63XD | Displaced fracture of lateral malleolus of unspecified fibula, subsequent encounter for closed fracture with routine healing                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.63XE | Displaced fracture of lateral malleolus of unspecified fibula, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.63XF | Displaced fracture of lateral malleolus of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.63XG | Displaced fracture of lateral malleolus of unspecified fibula, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.63XH | Displaced fracture of lateral malleolus of unspecified fibula, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.63XJ | Displaced fracture of lateral malleolus of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.63XK | Displaced fracture of lateral malleolus of unspecified fibula, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.63XM | Displaced fracture of lateral malleolus of unspecified fibula, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.63XN | Displaced fracture of lateral malleolus of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.63XP | Displaced fracture of lateral malleolus of unspecified fibula, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.63XQ | Displaced fracture of lateral malleolus of unspecified fibula, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.63XR | Displaced fracture of lateral malleolus of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.63XS | Displaced fracture of lateral malleolus of unspecified fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.64   | Nondisplaced fracture of lateral malleolus of right fibula  | Diagnosis     | ICD-10-CM |
| S82.64XA | Nondisplaced fracture of lateral malleolus of right fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.64XB | Nondisplaced fracture of lateral malleolus of right fibula, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.64XC | Nondisplaced fracture of lateral malleolus of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S82.64XD | Nondisplaced fracture of lateral malleolus of right fibula, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S82.64XE | Nondisplaced fracture of lateral malleolus of right fibula, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S82.64XF | Nondisplaced fracture of lateral malleolus of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S82.64XG | Nondisplaced fracture of lateral malleolus of right fibula, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S82.64XH | Nondisplaced fracture of lateral malleolus of right fibula, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S82.64XJ | Nondisplaced fracture of lateral malleolus of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S82.64XK | Nondisplaced fracture of lateral malleolus of right fibula, subsequent encounter for closed fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S82.64XM | Nondisplaced fracture of lateral malleolus of right fibula, subsequent encounter for open fracture type I or II with nonunion                       | Diagnosis     | ICD-10-CM |
| S82.64XN | Nondisplaced fracture of lateral malleolus of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion           | Diagnosis     | ICD-10-CM |
| S82.64XP | Nondisplaced fracture of lateral malleolus of right fibula, subsequent encounter for closed fracture with malunion                                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.64XQ | Nondisplaced fracture of lateral malleolus of right fibula, subsequent encounter for open fracture type I or II with malunion                          | Diagnosis     | ICD-10-CM |
| S82.64XR | Nondisplaced fracture of lateral malleolus of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion              | Diagnosis     | ICD-10-CM |
| S82.64XS | Nondisplaced fracture of lateral malleolus of right fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.65   | Nondisplaced fracture of lateral malleolus of left fibula  | Diagnosis     | ICD-10-CM |
| S82.65XA | Nondisplaced fracture of lateral malleolus of left fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.65XB | Nondisplaced fracture of lateral malleolus of left fibula, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.65XC | Nondisplaced fracture of lateral malleolus of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S82.65XD | Nondisplaced fracture of lateral malleolus of left fibula, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S82.65XE | Nondisplaced fracture of lateral malleolus of left fibula, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S82.65XF | Nondisplaced fracture of lateral malleolus of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S82.65XG | Nondisplaced fracture of lateral malleolus of left fibula, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S82.65XH | Nondisplaced fracture of lateral malleolus of left fibula, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S82.65XJ | Nondisplaced fracture of lateral malleolus of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.65XK | Nondisplaced fracture of lateral malleolus of left fibula, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.65XM | Nondisplaced fracture of lateral malleolus of left fibula, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.65XN | Nondisplaced fracture of lateral malleolus of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.65XP | Nondisplaced fracture of lateral malleolus of left fibula, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.65XQ | Nondisplaced fracture of lateral malleolus of left fibula, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.65XR | Nondisplaced fracture of lateral malleolus of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.65XS | Nondisplaced fracture of lateral malleolus of left fibula, sequela   | Diagnosis     | ICD-10-CM |
| S82.66   | Nondisplaced fracture of lateral malleolus of unspecified fibula   | Diagnosis     | ICD-10-CM |
| S82.66XA | Nondisplaced fracture of lateral malleolus of unspecified fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.66XB | Nondisplaced fracture of lateral malleolus of unspecified fibula, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.66XC | Nondisplaced fracture of lateral malleolus of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.66XD | Nondisplaced fracture of lateral malleolus of unspecified fibula, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.66XE | Nondisplaced fracture of lateral malleolus of unspecified fibula, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.66XF | Nondisplaced fracture of lateral malleolus of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.66XG | Nondisplaced fracture of lateral malleolus of unspecified fibula, subsequent encounter for closed fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S82.66XH | Nondisplaced fracture of lateral malleolus of unspecified fibula, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S82.66XJ | Nondisplaced fracture of lateral malleolus of unspecified fibula, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.66XK | Nondisplaced fracture of lateral malleolus of unspecified fibula, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S82.66XM | Nondisplaced fracture of lateral malleolus of unspecified fibula, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S82.66XN | Nondisplaced fracture of lateral malleolus of unspecified fibula, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.66XP | Nondisplaced fracture of lateral malleolus of unspecified fibula, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S82.66XQ | Nondisplaced fracture of lateral malleolus of unspecified fibula, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S82.66XR | Nondisplaced fracture of lateral malleolus of unspecified fibula, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.66XS | Nondisplaced fracture of lateral malleolus of unspecified fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.8    | Other fractures of lower leg   | Diagnosis     | ICD-10-CM |
| S82.81   | Torus fracture of upper end of fibula  | Diagnosis     | ICD-10-CM |
| S82.811  | Torus fracture of upper end of right fibula  | Diagnosis     | ICD-10-CM |
| S82.811A | Torus fracture of upper end of right fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.811D | Torus fracture of upper end of right fibula, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S82.811G | Torus fracture of upper end of right fibula, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.811K | Torus fracture of upper end of right fibula, subsequent encounter for fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S82.811P | Torus fracture of upper end of right fibula, subsequent encounter for fracture with malunion   | Diagnosis     | ICD-10-CM |
| S82.811S | Torus fracture of upper end of right fibula, sequela   | Diagnosis     | ICD-10-CM |
| S82.812  | Torus fracture of upper end of left fibula   | Diagnosis     | ICD-10-CM |
| S82.812A | Torus fracture of upper end of left fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.812D | Torus fracture of upper end of left fibula, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S82.812G | Torus fracture of upper end of left fibula, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S82.812K | Torus fracture of upper end of left fibula, subsequent encounter for fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S82.812P | Torus fracture of upper end of left fibula, subsequent encounter for fracture with malunion  | Diagnosis     | ICD-10-CM |
| S82.812S | Torus fracture of upper end of left fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.819  | Torus fracture of upper end of unspecified fibula  | Diagnosis     | ICD-10-CM |
| S82.819A | Torus fracture of upper end of unspecified fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.819D | Torus fracture of upper end of unspecified fibula, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S82.819G | Torus fracture of upper end of unspecified fibula, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.819K | Torus fracture of upper end of unspecified fibula, subsequent encounter for fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S82.819P | Torus fracture of upper end of unspecified fibula, subsequent encounter for fracture with malunion   | Diagnosis     | ICD-10-CM |
| S82.819S | Torus fracture of upper end of unspecified fibula, sequela   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.82   | Torus fracture of lower end of fibula   | Diagnosis     | ICD-10-CM |
| S82.821  | Torus fracture of lower end of right fibula   | Diagnosis     | ICD-10-CM |
| S82.821A | Torus fracture of lower end of right fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.821D | Torus fracture of lower end of right fibula, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S82.821G | Torus fracture of lower end of right fibula, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S82.821K | Torus fracture of lower end of right fibula, subsequent encounter for fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S82.821P | Torus fracture of lower end of right fibula, subsequent encounter for fracture with malunion  | Diagnosis     | ICD-10-CM |
| S82.821S | Torus fracture of lower end of right fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.822  | Torus fracture of lower end of left fibula  | Diagnosis     | ICD-10-CM |
| S82.822A | Torus fracture of lower end of left fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.822D | Torus fracture of lower end of left fibula, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S82.822G | Torus fracture of lower end of left fibula, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.822K | Torus fracture of lower end of left fibula, subsequent encounter for fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S82.822P | Torus fracture of lower end of left fibula, subsequent encounter for fracture with malunion   | Diagnosis     | ICD-10-CM |
| S82.822S | Torus fracture of lower end of left fibula, sequela   | Diagnosis     | ICD-10-CM |
| S82.829  | Torus fracture of lower end of unspecified fibula   | Diagnosis     | ICD-10-CM |
| S82.829A | Torus fracture of lower end of unspecified fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.829D | Torus fracture of lower end of unspecified fibula, subsequent encounter for fracture with routine healing                                   | Diagnosis     | ICD-10-CM |
| S82.829G | Torus fracture of lower end of unspecified fibula, subsequent encounter for fracture with delayed healing                                   | Diagnosis     | ICD-10-CM |
| S82.829K | Torus fracture of lower end of unspecified fibula, subsequent encounter for fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S82.829P | Torus fracture of lower end of unspecified fibula, subsequent encounter for fracture with malunion  | Diagnosis     | ICD-10-CM |
| S82.829S | Torus fracture of lower end of unspecified fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.83   | Other fracture of upper and lower end of fibula   | Diagnosis     | ICD-10-CM |
| S82.831  | Other fracture of upper and lower end of right fibula   | Diagnosis     | ICD-10-CM |
| S82.831A | Other fracture of upper and lower end of right fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.831B | Other fracture of upper and lower end of right fibula, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.831C | Other fracture of upper and lower end of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.831D | Other fracture of upper and lower end of right fibula, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.831E | Other fracture of upper and lower end of right fibula, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.831F | Other fracture of upper and lower end of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.831G | Other fracture of upper and lower end of right fibula, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.831H | Other fracture of upper and lower end of right fibula, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.831J | Other fracture of upper and lower end of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.831K | Other fracture of upper and lower end of right fibula, subsequent encounter for closed fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S82.831M | Other fracture of upper and lower end of right fibula, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S82.831N | Other fracture of upper and lower end of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion       | Diagnosis     | ICD-10-CM |
| S82.831P | Other fracture of upper and lower end of right fibula, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S82.831Q | Other fracture of upper and lower end of right fibula, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S82.831R | Other fracture of upper and lower end of right fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S82.831S | Other fracture of upper and lower end of right fibula, sequela   | Diagnosis     | ICD-10-CM |
| S82.832  | Other fracture of upper and lower end of left fibula   | Diagnosis     | ICD-10-CM |
| S82.832A | Other fracture of upper and lower end of left fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.832B | Other fracture of upper and lower end of left fibula, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.832C | Other fracture of upper and lower end of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.832D | Other fracture of upper and lower end of left fibula, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.832E | Other fracture of upper and lower end of left fibula, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.832F | Other fracture of upper and lower end of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.832G | Other fracture of upper and lower end of left fibula, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.832H | Other fracture of upper and lower end of left fibula, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.832J | Other fracture of upper and lower end of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.832K | Other fracture of upper and lower end of left fibula, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.832M | Other fracture of upper and lower end of left fibula, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.832N | Other fracture of upper and lower end of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.832P | Other fracture of upper and lower end of left fibula, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.832Q | Other fracture of upper and lower end of left fibula, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.832R | Other fracture of upper and lower end of left fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.832S | Other fracture of upper and lower end of left fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.839  | Other fracture of upper and lower end of unspecified fibula  | Diagnosis     | ICD-10-CM |
| S82.839A | Other fracture of upper and lower end of unspecified fibula, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.839B | Other fracture of upper and lower end of unspecified fibula, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.839C | Other fracture of upper and lower end of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.839D | Other fracture of upper and lower end of unspecified fibula, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.839E | Other fracture of upper and lower end of unspecified fibula, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.839F | Other fracture of upper and lower end of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.839G | Other fracture of upper and lower end of unspecified fibula, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.839H | Other fracture of upper and lower end of unspecified fibula, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.839J | Other fracture of upper and lower end of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.839K | Other fracture of upper and lower end of unspecified fibula, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.839M | Other fracture of upper and lower end of unspecified fibula, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.839N | Other fracture of upper and lower end of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.839P | Other fracture of upper and lower end of unspecified fibula, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.839Q | Other fracture of upper and lower end of unspecified fibula, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.839R | Other fracture of upper and lower end of unspecified fibula, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.839S | Other fracture of upper and lower end of unspecified fibula, sequela  | Diagnosis     | ICD-10-CM |
| S82.84   | Bimalleolar fracture of lower leg   | Diagnosis     | ICD-10-CM |
| S82.841  | Displaced bimalleolar fracture of right lower leg   | Diagnosis     | ICD-10-CM |
| S82.841A | Displaced bimalleolar fracture of right lower leg, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.841B | Displaced bimalleolar fracture of right lower leg, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S82.841C | Displaced bimalleolar fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC                                   | Diagnosis     | ICD-10-CM |
| S82.841D | Displaced bimalleolar fracture of right lower leg, subsequent encounter for closed fracture with routine healing                                  | Diagnosis     | ICD-10-CM |
| S82.841E | Displaced bimalleolar fracture of right lower leg, subsequent encounter for open fracture type I or II with routine healing                       | Diagnosis     | ICD-10-CM |
| S82.841F | Displaced bimalleolar fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing           | Diagnosis     | ICD-10-CM |
| S82.841G | Displaced bimalleolar fracture of right lower leg, subsequent encounter for closed fracture with delayed healing                                  | Diagnosis     | ICD-10-CM |
| S82.841H | Displaced bimalleolar fracture of right lower leg, subsequent encounter for open fracture type I or II with delayed healing                       | Diagnosis     | ICD-10-CM |
| S82.841J | Displaced bimalleolar fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing           | Diagnosis     | ICD-10-CM |
| S82.841K | Displaced bimalleolar fracture of right lower leg, subsequent encounter for closed fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S82.841M | Displaced bimalleolar fracture of right lower leg, subsequent encounter for open fracture type I or II with nonunion                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.841N | Displaced bimalleolar fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion       | Diagnosis     | ICD-10-CM |
| S82.841P | Displaced bimalleolar fracture of right lower leg, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S82.841Q | Displaced bimalleolar fracture of right lower leg, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S82.841R | Displaced bimalleolar fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion       | Diagnosis     | ICD-10-CM |
| S82.841S | Displaced bimalleolar fracture of right lower leg, sequela   | Diagnosis     | ICD-10-CM |
| S82.842  | Displaced bimalleolar fracture of left lower leg   | Diagnosis     | ICD-10-CM |
| S82.842A | Displaced bimalleolar fracture of left lower leg, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.842B | Displaced bimalleolar fracture of left lower leg, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.842C | Displaced bimalleolar fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.842D | Displaced bimalleolar fracture of left lower leg, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.842E | Displaced bimalleolar fracture of left lower leg, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.842F | Displaced bimalleolar fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.842G | Displaced bimalleolar fracture of left lower leg, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.842H | Displaced bimalleolar fracture of left lower leg, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.842J | Displaced bimalleolar fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.842K | Displaced bimalleolar fracture of left lower leg, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.842M | Displaced bimalleolar fracture of left lower leg, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.842N | Displaced bimalleolar fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.842P | Displaced bimalleolar fracture of left lower leg, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.842Q | Displaced bimalleolar fracture of left lower leg, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.842R | Displaced bimalleolar fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.842S | Displaced bimalleolar fracture of left lower leg, sequela  | Diagnosis     | ICD-10-CM |
| S82.843  | Displaced bimalleolar fracture of unspecified lower leg  | Diagnosis     | ICD-10-CM |
| S82.843A | Displaced bimalleolar fracture of unspecified lower leg, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.843B | Displaced bimalleolar fracture of unspecified lower leg, initial encounter for open fracture type I or II                              | Diagnosis     | ICD-10-CM |
| S82.843C | Displaced bimalleolar fracture of unspecified lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC                  | Diagnosis     | ICD-10-CM |
| S82.843D | Displaced bimalleolar fracture of unspecified lower leg, subsequent encounter for closed fracture with routine healing                 | Diagnosis     | ICD-10-CM |
| S82.843E | Displaced bimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type I or II with routine healing      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.843F | Displaced bimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.843G | Displaced bimalleolar fracture of unspecified lower leg, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.843H | Displaced bimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.843J | Displaced bimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.843K | Displaced bimalleolar fracture of unspecified lower leg, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.843M | Displaced bimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.843N | Displaced bimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.843P | Displaced bimalleolar fracture of unspecified lower leg, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.843Q | Displaced bimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.843R | Displaced bimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.843S | Displaced bimalleolar fracture of unspecified lower leg, sequela  | Diagnosis     | ICD-10-CM |
| S82.844  | Nondisplaced bimalleolar fracture of right lower leg  | Diagnosis     | ICD-10-CM |
| S82.844A | Nondisplaced bimalleolar fracture of right lower leg, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.844B | Nondisplaced bimalleolar fracture of right lower leg, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.844C | Nondisplaced bimalleolar fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S82.844D | Nondisplaced bimalleolar fracture of right lower leg, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S82.844E | Nondisplaced bimalleolar fracture of right lower leg, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S82.844F | Nondisplaced bimalleolar fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S82.844G | Nondisplaced bimalleolar fracture of right lower leg, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S82.844H | Nondisplaced bimalleolar fracture of right lower leg, subsequent encounter for open fracture type I or II with delayed healing                | Diagnosis     | ICD-10-CM |
| S82.844J | Nondisplaced bimalleolar fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing    | Diagnosis     | ICD-10-CM |
| S82.844K | Nondisplaced bimalleolar fracture of right lower leg, subsequent encounter for closed fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S82.844M | Nondisplaced bimalleolar fracture of right lower leg, subsequent encounter for open fracture type I or II with nonunion                       | Diagnosis     | ICD-10-CM |
| S82.844N | Nondisplaced bimalleolar fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion           | Diagnosis     | ICD-10-CM |
| S82.844P | Nondisplaced bimalleolar fracture of right lower leg, subsequent encounter for closed fracture with malunion                                  | Diagnosis     | ICD-10-CM |
| S82.844Q | Nondisplaced bimalleolar fracture of right lower leg, subsequent encounter for open fracture type I or II with malunion                       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.844R | Nondisplaced bimalleolar fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion              | Diagnosis     | ICD-10-CM |
| S82.844S | Nondisplaced bimalleolar fracture of right lower leg, sequela  | Diagnosis     | ICD-10-CM |
| S82.845  | Nondisplaced bimalleolar fracture of left lower leg  | Diagnosis     | ICD-10-CM |
| S82.845A | Nondisplaced bimalleolar fracture of left lower leg, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.845B | Nondisplaced bimalleolar fracture of left lower leg, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.845C | Nondisplaced bimalleolar fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S82.845D | Nondisplaced bimalleolar fracture of left lower leg, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S82.845E | Nondisplaced bimalleolar fracture of left lower leg, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S82.845F | Nondisplaced bimalleolar fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S82.845G | Nondisplaced bimalleolar fracture of left lower leg, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S82.845H | Nondisplaced bimalleolar fracture of left lower leg, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S82.845J | Nondisplaced bimalleolar fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.845K | Nondisplaced bimalleolar fracture of left lower leg, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.845M | Nondisplaced bimalleolar fracture of left lower leg, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.845N | Nondisplaced bimalleolar fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.845P | Nondisplaced bimalleolar fracture of left lower leg, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.845Q | Nondisplaced bimalleolar fracture of left lower leg, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.845R | Nondisplaced bimalleolar fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.845S | Nondisplaced bimalleolar fracture of left lower leg, sequela   | Diagnosis     | ICD-10-CM |
| S82.846  | Nondisplaced bimalleolar fracture of unspecified lower leg   | Diagnosis     | ICD-10-CM |
| S82.846A | Nondisplaced bimalleolar fracture of unspecified lower leg, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.846B | Nondisplaced bimalleolar fracture of unspecified lower leg, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.846C | Nondisplaced bimalleolar fracture of unspecified lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.846D | Nondisplaced bimalleolar fracture of unspecified lower leg, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.846E | Nondisplaced bimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.846F | Nondisplaced bimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.846G | Nondisplaced bimalleolar fracture of unspecified lower leg, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.846H | Nondisplaced bimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.846J | Nondisplaced bimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.846K | Nondisplaced bimalleolar fracture of unspecified lower leg, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.846M | Nondisplaced bimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.846N | Nondisplaced bimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.846P | Nondisplaced bimalleolar fracture of unspecified lower leg, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.846Q | Nondisplaced bimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.846R | Nondisplaced bimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.846S | Nondisplaced bimalleolar fracture of unspecified lower leg, sequela  | Diagnosis     | ICD-10-CM |
| S82.85   | Trimalleolar fracture of lower leg   | Diagnosis     | ICD-10-CM |
| S82.851  | Displaced trimalleolar fracture of right lower leg   | Diagnosis     | ICD-10-CM |
| S82.851A | Displaced trimalleolar fracture of right lower leg, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.851B | Displaced trimalleolar fracture of right lower leg, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S82.851C | Displaced trimalleolar fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC                                 | Diagnosis     | ICD-10-CM |
| S82.851D | Displaced trimalleolar fracture of right lower leg, subsequent encounter for closed fracture with routine healing                                | Diagnosis     | ICD-10-CM |
| S82.851E | Displaced trimalleolar fracture of right lower leg, subsequent encounter for open fracture type I or II with routine healing                     | Diagnosis     | ICD-10-CM |
| S82.851F | Displaced trimalleolar fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing         | Diagnosis     | ICD-10-CM |
| S82.851G | Displaced trimalleolar fracture of right lower leg, subsequent encounter for closed fracture with delayed healing                                | Diagnosis     | ICD-10-CM |
| S82.851H | Displaced trimalleolar fracture of right lower leg, subsequent encounter for open fracture type I or II with delayed healing                     | Diagnosis     | ICD-10-CM |
| S82.851J | Displaced trimalleolar fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing         | Diagnosis     | ICD-10-CM |
| S82.851K | Displaced trimalleolar fracture of right lower leg, subsequent encounter for closed fracture with nonunion                                       | Diagnosis     | ICD-10-CM |
| S82.851M | Displaced trimalleolar fracture of right lower leg, subsequent encounter for open fracture type I or II with nonunion                            | Diagnosis     | ICD-10-CM |
| S82.851N | Displaced trimalleolar fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion                | Diagnosis     | ICD-10-CM |
| S82.851P | Displaced trimalleolar fracture of right lower leg, subsequent encounter for closed fracture with malunion                                       | Diagnosis     | ICD-10-CM |
| S82.851Q | Displaced trimalleolar fracture of right lower leg, subsequent encounter for open fracture type I or II with malunion                            | Diagnosis     | ICD-10-CM |
| S82.851R | Displaced trimalleolar fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion                | Diagnosis     | ICD-10-CM |
| S82.851S | Displaced trimalleolar fracture of right lower leg, sequela  | Diagnosis     | ICD-10-CM |
| S82.852  | Displaced trimalleolar fracture of left lower leg  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.852A | Displaced trimalleolar fracture of left lower leg, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.852B | Displaced trimalleolar fracture of left lower leg, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.852C | Displaced trimalleolar fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S82.852D | Displaced trimalleolar fracture of left lower leg, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S82.852E | Displaced trimalleolar fracture of left lower leg, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S82.852F | Displaced trimalleolar fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S82.852G | Displaced trimalleolar fracture of left lower leg, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S82.852H | Displaced trimalleolar fracture of left lower leg, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S82.852J | Displaced trimalleolar fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.852K | Displaced trimalleolar fracture of left lower leg, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.852M | Displaced trimalleolar fracture of left lower leg, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.852N | Displaced trimalleolar fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.852P | Displaced trimalleolar fracture of left lower leg, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.852Q | Displaced trimalleolar fracture of left lower leg, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.852R | Displaced trimalleolar fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.852S | Displaced trimalleolar fracture of left lower leg, sequela   | Diagnosis     | ICD-10-CM |
| S82.853  | Displaced trimalleolar fracture of unspecified lower leg   | Diagnosis     | ICD-10-CM |
| S82.853A | Displaced trimalleolar fracture of unspecified lower leg, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.853B | Displaced trimalleolar fracture of unspecified lower leg, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.853C | Displaced trimalleolar fracture of unspecified lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.853D | Displaced trimalleolar fracture of unspecified lower leg, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.853E | Displaced trimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.853F | Displaced trimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.853G | Displaced trimalleolar fracture of unspecified lower leg, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.853H | Displaced trimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.853J | Displaced trimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.853K | Displaced trimalleolar fracture of unspecified lower leg, subsequent encounter for closed fracture with nonunion                            | Diagnosis     | ICD-10-CM |
| S82.853M | Displaced trimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type I or II with nonunion                 | Diagnosis     | ICD-10-CM |
| S82.853N | Displaced trimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion     | Diagnosis     | ICD-10-CM |
| S82.853P | Displaced trimalleolar fracture of unspecified lower leg, subsequent encounter for closed fracture with malunion                            | Diagnosis     | ICD-10-CM |
| S82.853Q | Displaced trimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type I or II with malunion                 | Diagnosis     | ICD-10-CM |
| S82.853R | Displaced trimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion     | Diagnosis     | ICD-10-CM |
| S82.853S | Displaced trimalleolar fracture of unspecified lower leg, sequela   | Diagnosis     | ICD-10-CM |
| S82.854  | Nondisplaced trimalleolar fracture of right lower leg   | Diagnosis     | ICD-10-CM |
| S82.854A | Nondisplaced trimalleolar fracture of right lower leg, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.854B | Nondisplaced trimalleolar fracture of right lower leg, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.854C | Nondisplaced trimalleolar fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.854D | Nondisplaced trimalleolar fracture of right lower leg, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.854E | Nondisplaced trimalleolar fracture of right lower leg, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.854F | Nondisplaced trimalleolar fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.854G | Nondisplaced trimalleolar fracture of right lower leg, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.854H | Nondisplaced trimalleolar fracture of right lower leg, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.854J | Nondisplaced trimalleolar fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.854K | Nondisplaced trimalleolar fracture of right lower leg, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.854M | Nondisplaced trimalleolar fracture of right lower leg, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.854N | Nondisplaced trimalleolar fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.854P | Nondisplaced trimalleolar fracture of right lower leg, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.854Q | Nondisplaced trimalleolar fracture of right lower leg, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.854R | Nondisplaced trimalleolar fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.854S | Nondisplaced trimalleolar fracture of right lower leg, sequela  | Diagnosis     | ICD-10-CM |
| S82.855  | Nondisplaced trimalleolar fracture of left lower leg  | Diagnosis     | ICD-10-CM |
| S82.855A | Nondisplaced trimalleolar fracture of left lower leg, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.855B | Nondisplaced trimalleolar fracture of left lower leg, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.855C | Nondisplaced trimalleolar fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.855D | Nondisplaced trimalleolar fracture of left lower leg, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S82.855E | Nondisplaced trimalleolar fracture of left lower leg, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S82.855F | Nondisplaced trimalleolar fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S82.855G | Nondisplaced trimalleolar fracture of left lower leg, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S82.855H | Nondisplaced trimalleolar fracture of left lower leg, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S82.855J | Nondisplaced trimalleolar fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.855K | Nondisplaced trimalleolar fracture of left lower leg, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.855M | Nondisplaced trimalleolar fracture of left lower leg, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.855N | Nondisplaced trimalleolar fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.855P | Nondisplaced trimalleolar fracture of left lower leg, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.855Q | Nondisplaced trimalleolar fracture of left lower leg, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.855R | Nondisplaced trimalleolar fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.855S | Nondisplaced trimalleolar fracture of left lower leg, sequela   | Diagnosis     | ICD-10-CM |
| S82.856  | Nondisplaced trimalleolar fracture of unspecified lower leg   | Diagnosis     | ICD-10-CM |
| S82.856A | Nondisplaced trimalleolar fracture of unspecified lower leg, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.856B | Nondisplaced trimalleolar fracture of unspecified lower leg, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.856C | Nondisplaced trimalleolar fracture of unspecified lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.856D | Nondisplaced trimalleolar fracture of unspecified lower leg, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.856E | Nondisplaced trimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.856F | Nondisplaced trimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.856G | Nondisplaced trimalleolar fracture of unspecified lower leg, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.856H | Nondisplaced trimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.856J | Nondisplaced trimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.856K | Nondisplaced trimalleolar fracture of unspecified lower leg, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.856M | Nondisplaced trimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.856N | Nondisplaced trimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.856P | Nondisplaced trimalleolar fracture of unspecified lower leg, subsequent encounter for closed fracture with malunion                        | Diagnosis     | ICD-10-CM |
| S82.856Q | Nondisplaced trimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type I or II with malunion             | Diagnosis     | ICD-10-CM |
| S82.856R | Nondisplaced trimalleolar fracture of unspecified lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion | Diagnosis     | ICD-10-CM |
| S82.856S | Nondisplaced trimalleolar fracture of unspecified lower leg, sequela   | Diagnosis     | ICD-10-CM |
| S82.86   | Maisonneuve's fracture   | Diagnosis     | ICD-10-CM |
| S82.861  | Displaced Maisonneuve's fracture of right leg  | Diagnosis     | ICD-10-CM |
| S82.861A | Displaced Maisonneuve's fracture of right leg, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.861B | Displaced Maisonneuve's fracture of right leg, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.861C | Displaced Maisonneuve's fracture of right leg, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S82.861D | Displaced Maisonneuve's fracture of right leg, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S82.861E | Displaced Maisonneuve's fracture of right leg, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S82.861F | Displaced Maisonneuve's fracture of right leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S82.861G | Displaced Maisonneuve's fracture of right leg, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S82.861H | Displaced Maisonneuve's fracture of right leg, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S82.861J | Displaced Maisonneuve's fracture of right leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.861K | Displaced Maisonneuve's fracture of right leg, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.861M | Displaced Maisonneuve's fracture of right leg, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.861N | Displaced Maisonneuve's fracture of right leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.861P | Displaced Maisonneuve's fracture of right leg, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.861Q | Displaced Maisonneuve's fracture of right leg, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.861R | Displaced Maisonneuve's fracture of right leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.861S | Displaced Maisonneuve's fracture of right leg, sequela   | Diagnosis     | ICD-10-CM |
| S82.862  | Displaced Maisonneuve's fracture of left leg   | Diagnosis     | ICD-10-CM |
| S82.862A | Displaced Maisonneuve's fracture of left leg, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.862B | Displaced Maisonneuve's fracture of left leg, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |
| S82.862C | Displaced Maisonneuve's fracture of left leg, initial encounter for open fracture type IIIA, IIIB, or IIIC                                 | Diagnosis     | ICD-10-CM |
| S82.862D | Displaced Maisonneuve's fracture of left leg, subsequent encounter for closed fracture with routine healing                                | Diagnosis     | ICD-10-CM |
| S82.862E | Displaced Maisonneuve's fracture of left leg, subsequent encounter for open fracture type I or II with routine healing                     | Diagnosis     | ICD-10-CM |
| S82.862F | Displaced Maisonneuve's fracture of left leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.862G | Displaced Maisonneuve's fracture of left leg, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S82.862H | Displaced Maisonneuve's fracture of left leg, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S82.862J | Displaced Maisonneuve's fracture of left leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.862K | Displaced Maisonneuve's fracture of left leg, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.862M | Displaced Maisonneuve's fracture of left leg, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.862N | Displaced Maisonneuve's fracture of left leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.862P | Displaced Maisonneuve's fracture of left leg, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.862Q | Displaced Maisonneuve's fracture of left leg, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.862R | Displaced Maisonneuve's fracture of left leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.862S | Displaced Maisonneuve's fracture of left leg, sequela   | Diagnosis     | ICD-10-CM |
| S82.863  | Displaced Maisonneuve's fracture of unspecified leg   | Diagnosis     | ICD-10-CM |
| S82.863A | Displaced Maisonneuve's fracture of unspecified leg, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.863B | Displaced Maisonneuve's fracture of unspecified leg, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.863C | Displaced Maisonneuve's fracture of unspecified leg, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.863D | Displaced Maisonneuve's fracture of unspecified leg, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.863E | Displaced Maisonneuve's fracture of unspecified leg, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.863F | Displaced Maisonneuve's fracture of unspecified leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.863G | Displaced Maisonneuve's fracture of unspecified leg, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.863H | Displaced Maisonneuve's fracture of unspecified leg, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.863J | Displaced Maisonneuve's fracture of unspecified leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.863K | Displaced Maisonneuve's fracture of unspecified leg, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.863M | Displaced Maisonneuve's fracture of unspecified leg, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.863N | Displaced Maisonneuve's fracture of unspecified leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.863P | Displaced Maisonneuve's fracture of unspecified leg, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.863Q | Displaced Maisonneuve's fracture of unspecified leg, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.863R | Displaced Maisonneuve's fracture of unspecified leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.863S | Displaced Maisonneuve's fracture of unspecified leg, sequela  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.864  | Nondisplaced Maisonneuve's fracture of right leg   | Diagnosis     | ICD-10-CM |
| S82.864A | Nondisplaced Maisonneuve's fracture of right leg, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.864B | Nondisplaced Maisonneuve's fracture of right leg, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.864C | Nondisplaced Maisonneuve's fracture of right leg, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.864D | Nondisplaced Maisonneuve's fracture of right leg, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.864E | Nondisplaced Maisonneuve's fracture of right leg, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.864F | Nondisplaced Maisonneuve's fracture of right leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.864G | Nondisplaced Maisonneuve's fracture of right leg, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.864H | Nondisplaced Maisonneuve's fracture of right leg, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.864J | Nondisplaced Maisonneuve's fracture of right leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.864K | Nondisplaced Maisonneuve's fracture of right leg, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.864M | Nondisplaced Maisonneuve's fracture of right leg, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.864N | Nondisplaced Maisonneuve's fracture of right leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.864P | Nondisplaced Maisonneuve's fracture of right leg, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.864Q | Nondisplaced Maisonneuve's fracture of right leg, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.864R | Nondisplaced Maisonneuve's fracture of right leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.864S | Nondisplaced Maisonneuve's fracture of right leg, sequela  | Diagnosis     | ICD-10-CM |
| S82.865  | Nondisplaced Maisonneuve's fracture of left leg  | Diagnosis     | ICD-10-CM |
| S82.865A | Nondisplaced Maisonneuve's fracture of left leg, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.865B | Nondisplaced Maisonneuve's fracture of left leg, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.865C | Nondisplaced Maisonneuve's fracture of left leg, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.865D | Nondisplaced Maisonneuve's fracture of left leg, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S82.865E | Nondisplaced Maisonneuve's fracture of left leg, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S82.865F | Nondisplaced Maisonneuve's fracture of left leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.865G | Nondisplaced Maisonneuve's fracture of left leg, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S82.865H | Nondisplaced Maisonneuve's fracture of left leg, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S82.865J | Nondisplaced Maisonneuve's fracture of left leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.865K | Nondisplaced Maisonneuve's fracture of left leg, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.865M | Nondisplaced Maisonneuve's fracture of left leg, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.865N | Nondisplaced Maisonneuve's fracture of left leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.865P | Nondisplaced Maisonneuve's fracture of left leg, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.865Q | Nondisplaced Maisonneuve's fracture of left leg, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.865R | Nondisplaced Maisonneuve's fracture of left leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.865S | Nondisplaced Maisonneuve's fracture of left leg, sequela   | Diagnosis     | ICD-10-CM |
| S82.866  | Nondisplaced Maisonneuve's fracture of unspecified leg   | Diagnosis     | ICD-10-CM |
| S82.866A | Nondisplaced Maisonneuve's fracture of unspecified leg, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.866B | Nondisplaced Maisonneuve's fracture of unspecified leg, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.866C | Nondisplaced Maisonneuve's fracture of unspecified leg, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.866D | Nondisplaced Maisonneuve's fracture of unspecified leg, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.866E | Nondisplaced Maisonneuve's fracture of unspecified leg, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.866F | Nondisplaced Maisonneuve's fracture of unspecified leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.866G | Nondisplaced Maisonneuve's fracture of unspecified leg, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.866H | Nondisplaced Maisonneuve's fracture of unspecified leg, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.866J | Nondisplaced Maisonneuve's fracture of unspecified leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.866K | Nondisplaced Maisonneuve's fracture of unspecified leg, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.866M | Nondisplaced Maisonneuve's fracture of unspecified leg, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.866N | Nondisplaced Maisonneuve's fracture of unspecified leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.866P | Nondisplaced Maisonneuve's fracture of unspecified leg, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.866Q | Nondisplaced Maisonneuve's fracture of unspecified leg, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.866R | Nondisplaced Maisonneuve's fracture of unspecified leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.866S | Nondisplaced Maisonneuve's fracture of unspecified leg, sequela  | Diagnosis     | ICD-10-CM |
| S82.87   | Pilon fracture of tibia  | Diagnosis     | ICD-10-CM |
| S82.871  | Displaced pilon fracture of right tibia  | Diagnosis     | ICD-10-CM |
| S82.871A | Displaced pilon fracture of right tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.871B | Displaced pilon fracture of right tibia, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.871C | Displaced pilon fracture of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.871D | Displaced pilon fracture of right tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.871E | Displaced pilon fracture of right tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.871F | Displaced pilon fracture of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.871G | Displaced pilon fracture of right tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.871H | Displaced pilon fracture of right tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.871J | Displaced pilon fracture of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.871K | Displaced pilon fracture of right tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.871M | Displaced pilon fracture of right tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.871N | Displaced pilon fracture of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.871P | Displaced pilon fracture of right tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.871Q | Displaced pilon fracture of right tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.871R | Displaced pilon fracture of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.871S | Displaced pilon fracture of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.872  | Displaced pilon fracture of left tibia  | Diagnosis     | ICD-10-CM |
| S82.872A | Displaced pilon fracture of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.872B | Displaced pilon fracture of left tibia, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.872C | Displaced pilon fracture of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.872D | Displaced pilon fracture of left tibia, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S82.872E | Displaced pilon fracture of left tibia, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S82.872F | Displaced pilon fracture of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.872G | Displaced pilon fracture of left tibia, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S82.872H | Displaced pilon fracture of left tibia, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S82.872J | Displaced pilon fracture of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.872K | Displaced pilon fracture of left tibia, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S82.872M | Displaced pilon fracture of left tibia, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S82.872N | Displaced pilon fracture of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.872P | Displaced pilon fracture of left tibia, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.872Q | Displaced pilon fracture of left tibia, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.872R | Displaced pilon fracture of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.872S | Displaced pilon fracture of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.873  | Displaced pilon fracture of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S82.873A | Displaced pilon fracture of unspecified tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.873B | Displaced pilon fracture of unspecified tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.873C | Displaced pilon fracture of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.873D | Displaced pilon fracture of unspecified tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.873E | Displaced pilon fracture of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.873F | Displaced pilon fracture of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.873G | Displaced pilon fracture of unspecified tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.873H | Displaced pilon fracture of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.873J | Displaced pilon fracture of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.873K | Displaced pilon fracture of unspecified tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.873M | Displaced pilon fracture of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.873N | Displaced pilon fracture of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.873P | Displaced pilon fracture of unspecified tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.873Q | Displaced pilon fracture of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.873R | Displaced pilon fracture of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.873S | Displaced pilon fracture of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.874  | Nondisplaced pilon fracture of right tibia  | Diagnosis     | ICD-10-CM |
| S82.874A | Nondisplaced pilon fracture of right tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.874B | Nondisplaced pilon fracture of right tibia, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.874C | Nondisplaced pilon fracture of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                            | Diagnosis     | ICD-10-CM |
| S82.874D | Nondisplaced pilon fracture of right tibia, subsequent encounter for closed fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S82.874E | Nondisplaced pilon fracture of right tibia, subsequent encounter for open fracture type I or II with routine healing                | Diagnosis     | ICD-10-CM |
| S82.874F | Nondisplaced pilon fracture of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing    | Diagnosis     | ICD-10-CM |
| S82.874G | Nondisplaced pilon fracture of right tibia, subsequent encounter for closed fracture with delayed healing                           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.874H | Nondisplaced pilon fracture of right tibia, subsequent encounter for open fracture type I or II with delayed healing           | Diagnosis     | ICD-10-CM |
| S82.874J | Nondisplaced pilon fracture of right tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.874K | Nondisplaced pilon fracture of right tibia, subsequent encounter for closed fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S82.874M | Nondisplaced pilon fracture of right tibia, subsequent encounter for open fracture type I or II with nonunion                  | Diagnosis     | ICD-10-CM |
| S82.874N | Nondisplaced pilon fracture of right tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.874P | Nondisplaced pilon fracture of right tibia, subsequent encounter for closed fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S82.874Q | Nondisplaced pilon fracture of right tibia, subsequent encounter for open fracture type I or II with malunion                  | Diagnosis     | ICD-10-CM |
| S82.874R | Nondisplaced pilon fracture of right tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.874S | Nondisplaced pilon fracture of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.875  | Nondisplaced pilon fracture of left tibia  | Diagnosis     | ICD-10-CM |
| S82.875A | Nondisplaced pilon fracture of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.875B | Nondisplaced pilon fracture of left tibia, initial encounter for open fracture type I or II                                    | Diagnosis     | ICD-10-CM |
| S82.875C | Nondisplaced pilon fracture of left tibia, initial encounter for open fracture type IIIA, IIB, or IIC                          | Diagnosis     | ICD-10-CM |
| S82.875D | Nondisplaced pilon fracture of left tibia, subsequent encounter for closed fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S82.875E | Nondisplaced pilon fracture of left tibia, subsequent encounter for open fracture type I or II with routine healing            | Diagnosis     | ICD-10-CM |
| S82.875F | Nondisplaced pilon fracture of left tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.875G | Nondisplaced pilon fracture of left tibia, subsequent encounter for closed fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S82.875H | Nondisplaced pilon fracture of left tibia, subsequent encounter for open fracture type I or II with delayed healing            | Diagnosis     | ICD-10-CM |
| S82.875J | Nondisplaced pilon fracture of left tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.875K | Nondisplaced pilon fracture of left tibia, subsequent encounter for closed fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S82.875M | Nondisplaced pilon fracture of left tibia, subsequent encounter for open fracture type I or II with nonunion                   | Diagnosis     | ICD-10-CM |
| S82.875N | Nondisplaced pilon fracture of left tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with nonunion         | Diagnosis     | ICD-10-CM |
| S82.875P | Nondisplaced pilon fracture of left tibia, subsequent encounter for closed fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S82.875Q | Nondisplaced pilon fracture of left tibia, subsequent encounter for open fracture type I or II with malunion                   | Diagnosis     | ICD-10-CM |
| S82.875R | Nondisplaced pilon fracture of left tibia, subsequent encounter for open fracture type IIIA, IIB, or IIC with malunion         | Diagnosis     | ICD-10-CM |
| S82.875S | Nondisplaced pilon fracture of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S82.876  | Nondisplaced pilon fracture of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S82.876A | Nondisplaced pilon fracture of unspecified tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.876B | Nondisplaced pilon fracture of unspecified tibia, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.876C | Nondisplaced pilon fracture of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.876D | Nondisplaced pilon fracture of unspecified tibia, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.876E | Nondisplaced pilon fracture of unspecified tibia, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.876F | Nondisplaced pilon fracture of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.876G | Nondisplaced pilon fracture of unspecified tibia, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.876H | Nondisplaced pilon fracture of unspecified tibia, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.876J | Nondisplaced pilon fracture of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.876K | Nondisplaced pilon fracture of unspecified tibia, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.876M | Nondisplaced pilon fracture of unspecified tibia, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.876N | Nondisplaced pilon fracture of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.876P | Nondisplaced pilon fracture of unspecified tibia, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.876Q | Nondisplaced pilon fracture of unspecified tibia, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.876R | Nondisplaced pilon fracture of unspecified tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.876S | Nondisplaced pilon fracture of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S82.89   | Other fractures of lower leg   | Diagnosis     | ICD-10-CM |
| S82.891  | Other fracture of right lower leg  | Diagnosis     | ICD-10-CM |
| S82.891A | Other fracture of right lower leg, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.891B | Other fracture of right lower leg, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.891C | Other fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC  | Diagnosis     | ICD-10-CM |
| S82.891D | Other fracture of right lower leg, subsequent encounter for closed fracture with routine healing                                       | Diagnosis     | ICD-10-CM |
| S82.891E | Other fracture of right lower leg, subsequent encounter for open fracture type I or II with routine healing                            | Diagnosis     | ICD-10-CM |
| S82.891F | Other fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing                | Diagnosis     | ICD-10-CM |
| S82.891G | Other fracture of right lower leg, subsequent encounter for closed fracture with delayed healing                                       | Diagnosis     | ICD-10-CM |
| S82.891H | Other fracture of right lower leg, subsequent encounter for open fracture type I or II with delayed healing                            | Diagnosis     | ICD-10-CM |
| S82.891J | Other fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing                | Diagnosis     | ICD-10-CM |
| S82.891K | Other fracture of right lower leg, subsequent encounter for closed fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S82.891M | Other fracture of right lower leg, subsequent encounter for open fracture type I or II with nonunion                                   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.891N | Other fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion              | Diagnosis     | ICD-10-CM |
| S82.891P | Other fracture of right lower leg, subsequent encounter for closed fracture with malunion                                     | Diagnosis     | ICD-10-CM |
| S82.891Q | Other fracture of right lower leg, subsequent encounter for open fracture type I or II with malunion                          | Diagnosis     | ICD-10-CM |
| S82.891R | Other fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion              | Diagnosis     | ICD-10-CM |
| S82.891S | Other fracture of right lower leg, sequela  | Diagnosis     | ICD-10-CM |
| S82.892  | Other fracture of left lower leg  | Diagnosis     | ICD-10-CM |
| S82.892A | Other fracture of left lower leg, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.892B | Other fracture of left lower leg, initial encounter for open fracture type I or II  | Diagnosis     | ICD-10-CM |
| S82.892C | Other fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC                                | Diagnosis     | ICD-10-CM |
| S82.892D | Other fracture of left lower leg, subsequent encounter for closed fracture with routine healing                               | Diagnosis     | ICD-10-CM |
| S82.892E | Other fracture of left lower leg, subsequent encounter for open fracture type I or II with routine healing                    | Diagnosis     | ICD-10-CM |
| S82.892F | Other fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing        | Diagnosis     | ICD-10-CM |
| S82.892G | Other fracture of left lower leg, subsequent encounter for closed fracture with delayed healing                               | Diagnosis     | ICD-10-CM |
| S82.892H | Other fracture of left lower leg, subsequent encounter for open fracture type I or II with delayed healing                    | Diagnosis     | ICD-10-CM |
| S82.892J | Other fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing        | Diagnosis     | ICD-10-CM |
| S82.892K | Other fracture of left lower leg, subsequent encounter for closed fracture with nonunion                                      | Diagnosis     | ICD-10-CM |
| S82.892M | Other fracture of left lower leg, subsequent encounter for open fracture type I or II with nonunion                           | Diagnosis     | ICD-10-CM |
| S82.892N | Other fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion               | Diagnosis     | ICD-10-CM |
| S82.892P | Other fracture of left lower leg, subsequent encounter for closed fracture with malunion                                      | Diagnosis     | ICD-10-CM |
| S82.892Q | Other fracture of left lower leg, subsequent encounter for open fracture type I or II with malunion                           | Diagnosis     | ICD-10-CM |
| S82.892R | Other fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion               | Diagnosis     | ICD-10-CM |
| S82.892S | Other fracture of left lower leg, sequela   | Diagnosis     | ICD-10-CM |
| S82.899  | Other fracture of unspecified lower leg   | Diagnosis     | ICD-10-CM |
| S82.899A | Other fracture of unspecified lower leg, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.899B | Other fracture of unspecified lower leg, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.899C | Other fracture of unspecified lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.899D | Other fracture of unspecified lower leg, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.899E | Other fracture of unspecified lower leg, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.899F | Other fracture of unspecified lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.899G | Other fracture of unspecified lower leg, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.899H | Other fracture of unspecified lower leg, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.899J | Other fracture of unspecified lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing       | Diagnosis     | ICD-10-CM |
| S82.899K | Other fracture of unspecified lower leg, subsequent encounter for closed fracture with nonunion                                     | Diagnosis     | ICD-10-CM |
| S82.899M | Other fracture of unspecified lower leg, subsequent encounter for open fracture type I or II with nonunion                          | Diagnosis     | ICD-10-CM |
| S82.899N | Other fracture of unspecified lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion              | Diagnosis     | ICD-10-CM |
| S82.899P | Other fracture of unspecified lower leg, subsequent encounter for closed fracture with malunion                                     | Diagnosis     | ICD-10-CM |
| S82.899Q | Other fracture of unspecified lower leg, subsequent encounter for open fracture type I or II with malunion                          | Diagnosis     | ICD-10-CM |
| S82.899R | Other fracture of unspecified lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion              | Diagnosis     | ICD-10-CM |
| S82.899S | Other fracture of unspecified lower leg, sequela  | Diagnosis     | ICD-10-CM |
| S82.9    | Unspecified fracture of lower leg   | Diagnosis     | ICD-10-CM |
| S82.90   | Unspecified fracture of unspecified lower leg   | Diagnosis     | ICD-10-CM |
| S82.90XA | Unspecified fracture of unspecified lower leg, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.90XB | Unspecified fracture of unspecified lower leg, initial encounter for open fracture type I or II                                     | Diagnosis     | ICD-10-CM |
| S82.90XC | Unspecified fracture of unspecified lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.90XD | Unspecified fracture of unspecified lower leg, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.90XE | Unspecified fracture of unspecified lower leg, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.90XF | Unspecified fracture of unspecified lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.90XG | Unspecified fracture of unspecified lower leg, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.90XH | Unspecified fracture of unspecified lower leg, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.90XJ | Unspecified fracture of unspecified lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.90XK | Unspecified fracture of unspecified lower leg, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.90XM | Unspecified fracture of unspecified lower leg, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.90XN | Unspecified fracture of unspecified lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.90XP | Unspecified fracture of unspecified lower leg, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.90XQ | Unspecified fracture of unspecified lower leg, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.90XR | Unspecified fracture of unspecified lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.90XS | Unspecified fracture of unspecified lower leg, sequela  | Diagnosis     | ICD-10-CM |
| S82.91   | Unspecified fracture of right lower leg   | Diagnosis     | ICD-10-CM |
| S82.91XA | Unspecified fracture of right lower leg, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S82.91XB | Unspecified fracture of right lower leg, initial encounter for open fracture type I or II   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S82.91XC | Unspecified fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC                         | Diagnosis     | ICD-10-CM |
| S82.91XD | Unspecified fracture of right lower leg, subsequent encounter for closed fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S82.91XE | Unspecified fracture of right lower leg, subsequent encounter for open fracture type I or II with routine healing             | Diagnosis     | ICD-10-CM |
| S82.91XF | Unspecified fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing | Diagnosis     | ICD-10-CM |
| S82.91XG | Unspecified fracture of right lower leg, subsequent encounter for closed fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S82.91XH | Unspecified fracture of right lower leg, subsequent encounter for open fracture type I or II with delayed healing             | Diagnosis     | ICD-10-CM |
| S82.91XJ | Unspecified fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing | Diagnosis     | ICD-10-CM |
| S82.91XK | Unspecified fracture of right lower leg, subsequent encounter for closed fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S82.91XM | Unspecified fracture of right lower leg, subsequent encounter for open fracture type I or II with nonunion                    | Diagnosis     | ICD-10-CM |
| S82.91XN | Unspecified fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion        | Diagnosis     | ICD-10-CM |
| S82.91XP | Unspecified fracture of right lower leg, subsequent encounter for closed fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S82.91XQ | Unspecified fracture of right lower leg, subsequent encounter for open fracture type I or II with malunion                    | Diagnosis     | ICD-10-CM |
| S82.91XR | Unspecified fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion        | Diagnosis     | ICD-10-CM |
| S82.91XS | Unspecified fracture of right lower leg, sequela  | Diagnosis     | ICD-10-CM |
| S82.92   | Unspecified fracture of left lower leg  | Diagnosis     | ICD-10-CM |
| S82.92XA | Unspecified fracture of left lower leg, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S82.92XB | Unspecified fracture of left lower leg, initial encounter for open fracture type I or II                                      | Diagnosis     | ICD-10-CM |
| S82.92XC | Unspecified fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC                          | Diagnosis     | ICD-10-CM |
| S82.92XD | Unspecified fracture of left lower leg, subsequent encounter for closed fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S82.92XE | Unspecified fracture of left lower leg, subsequent encounter for open fracture type I or II with routine healing              | Diagnosis     | ICD-10-CM |
| S82.92XF | Unspecified fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing  | Diagnosis     | ICD-10-CM |
| S82.92XG | Unspecified fracture of left lower leg, subsequent encounter for closed fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S82.92XH | Unspecified fracture of left lower leg, subsequent encounter for open fracture type I or II with delayed healing              | Diagnosis     | ICD-10-CM |
| S82.92XJ | Unspecified fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing  | Diagnosis     | ICD-10-CM |
| S82.92XK | Unspecified fracture of left lower leg, subsequent encounter for closed fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S82.92XM | Unspecified fracture of left lower leg, subsequent encounter for open fracture type I or II with nonunion                     | Diagnosis     | ICD-10-CM |
| S82.92XN | Unspecified fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S82.92XP | Unspecified fracture of left lower leg, subsequent encounter for closed fracture with malunion                       | Diagnosis     | ICD-10-CM |
| S82.92XQ | Unspecified fracture of left lower leg, subsequent encounter for open fracture type I or II with malunion            | Diagnosis     | ICD-10-CM |
| S82.92XR | Unspecified fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIB, or IIIC with malunion | Diagnosis     | ICD-10-CM |
| S82.92XS | Unspecified fracture of left lower leg, sequela  | Diagnosis     | ICD-10-CM |
| S83      | Dislocation and sprain of joints and ligaments of knee   | Diagnosis     | ICD-10-CM |
| S83.0    | Subluxation and dislocation of patella   | Diagnosis     | ICD-10-CM |
| S83.00   | Unspecified subluxation and dislocation of patella   | Diagnosis     | ICD-10-CM |
| S83.001  | Unspecified subluxation of right patella   | Diagnosis     | ICD-10-CM |
| S83.001A | Unspecified subluxation of right patella, initial encounter  | Diagnosis     | ICD-10-CM |
| S83.001D | Unspecified subluxation of right patella, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S83.001S | Unspecified subluxation of right patella, sequela  | Diagnosis     | ICD-10-CM |
| S83.002  | Unspecified subluxation of left patella  | Diagnosis     | ICD-10-CM |
| S83.002A | Unspecified subluxation of left patella, initial encounter   | Diagnosis     | ICD-10-CM |
| S83.002D | Unspecified subluxation of left patella, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S83.002S | Unspecified subluxation of left patella, sequela   | Diagnosis     | ICD-10-CM |
| S83.003  | Unspecified subluxation of unspecified patella   | Diagnosis     | ICD-10-CM |
| S83.003A | Unspecified subluxation of unspecified patella, initial encounter  | Diagnosis     | ICD-10-CM |
| S83.003D | Unspecified subluxation of unspecified patella, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S83.003S | Unspecified subluxation of unspecified patella, sequela  | Diagnosis     | ICD-10-CM |
| S83.004  | Unspecified dislocation of right patella   | Diagnosis     | ICD-10-CM |
| S83.004A | Unspecified dislocation of right patella, initial encounter  | Diagnosis     | ICD-10-CM |
| S83.004D | Unspecified dislocation of right patella, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S83.004S | Unspecified dislocation of right patella, sequela  | Diagnosis     | ICD-10-CM |
| S83.005  | Unspecified dislocation of left patella  | Diagnosis     | ICD-10-CM |
| S83.005A | Unspecified dislocation of left patella, initial encounter   | Diagnosis     | ICD-10-CM |
| S83.005D | Unspecified dislocation of left patella, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S83.005S | Unspecified dislocation of left patella, sequela   | Diagnosis     | ICD-10-CM |
| S83.006  | Unspecified dislocation of unspecified patella   | Diagnosis     | ICD-10-CM |
| S83.006A | Unspecified dislocation of unspecified patella, initial encounter  | Diagnosis     | ICD-10-CM |
| S83.006D | Unspecified dislocation of unspecified patella, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S83.006S | Unspecified dislocation of unspecified patella, sequela  | Diagnosis     | ICD-10-CM |
| S83.01   | Lateral subluxation and dislocation of patella   | Diagnosis     | ICD-10-CM |
| S83.011  | Lateral subluxation of right patella   | Diagnosis     | ICD-10-CM |
| S83.011A | Lateral subluxation of right patella, initial encounter  | Diagnosis     | ICD-10-CM |
| S83.011D | Lateral subluxation of right patella, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S83.011S | Lateral subluxation of right patella, sequela  | Diagnosis     | ICD-10-CM |
| S83.012  | Lateral subluxation of left patella  | Diagnosis     | ICD-10-CM |
| S83.012A | Lateral subluxation of left patella, initial encounter   | Diagnosis     | ICD-10-CM |
| S83.012D | Lateral subluxation of left patella, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S83.012S | Lateral subluxation of left patella, sequela   | Diagnosis     | ICD-10-CM |
| S83.013  | Lateral subluxation of unspecified patella   | Diagnosis     | ICD-10-CM |
| S83.013A | Lateral subluxation of unspecified patella, initial encounter  | Diagnosis     | ICD-10-CM |
| S83.013D | Lateral subluxation of unspecified patella, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S83.013S | Lateral subluxation of unspecified patella, sequela  | Diagnosis     | ICD-10-CM |
| S83.014  | Lateral dislocation of right patella   | Diagnosis     | ICD-10-CM |
| S83.014A | Lateral dislocation of right patella, initial encounter  | Diagnosis     | ICD-10-CM |
| S83.014D | Lateral dislocation of right patella, subsequent encounter   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S83.014S | Lateral dislocation of right patella, sequela                     | Diagnosis     | ICD-10-CM |
| S83.015  | Lateral dislocation of left patella                               | Diagnosis     | ICD-10-CM |
| S83.015A | Lateral dislocation of left patella, initial encounter            | Diagnosis     | ICD-10-CM |
| S83.015D | Lateral dislocation of left patella, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S83.015S | Lateral dislocation of left patella, sequela                      | Diagnosis     | ICD-10-CM |
| S83.016  | Lateral dislocation of unspecified patella                        | Diagnosis     | ICD-10-CM |
| S83.016A | Lateral dislocation of unspecified patella, initial encounter     | Diagnosis     | ICD-10-CM |
| S83.016D | Lateral dislocation of unspecified patella, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S83.016S | Lateral dislocation of unspecified patella, sequela               | Diagnosis     | ICD-10-CM |
| S83.09   | Other subluxation and dislocation of patella                      | Diagnosis     | ICD-10-CM |
| S83.091  | Other subluxation of right patella                                | Diagnosis     | ICD-10-CM |
| S83.091A | Other subluxation of right patella, initial encounter             | Diagnosis     | ICD-10-CM |
| S83.091D | Other subluxation of right patella, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S83.091S | Other subluxation of right patella, sequela                       | Diagnosis     | ICD-10-CM |
| S83.092  | Other subluxation of left patella                                 | Diagnosis     | ICD-10-CM |
| S83.092A | Other subluxation of left patella, initial encounter              | Diagnosis     | ICD-10-CM |
| S83.092D | Other subluxation of left patella, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S83.092S | Other subluxation of left patella, sequela                        | Diagnosis     | ICD-10-CM |
| S83.093  | Other subluxation of unspecified patella                          | Diagnosis     | ICD-10-CM |
| S83.093A | Other subluxation of unspecified patella, initial encounter       | Diagnosis     | ICD-10-CM |
| S83.093D | Other subluxation of unspecified patella, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S83.093S | Other subluxation of unspecified patella, sequela                 | Diagnosis     | ICD-10-CM |
| S83.094  | Other dislocation of right patella                                | Diagnosis     | ICD-10-CM |
| S83.094A | Other dislocation of right patella, initial encounter             | Diagnosis     | ICD-10-CM |
| S83.094D | Other dislocation of right patella, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S83.094S | Other dislocation of right patella, sequela                       | Diagnosis     | ICD-10-CM |
| S83.095  | Other dislocation of left patella                                 | Diagnosis     | ICD-10-CM |
| S83.095A | Other dislocation of left patella, initial encounter              | Diagnosis     | ICD-10-CM |
| S83.095D | Other dislocation of left patella, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S83.095S | Other dislocation of left patella, sequela                        | Diagnosis     | ICD-10-CM |
| S83.096  | Other dislocation of unspecified patella                          | Diagnosis     | ICD-10-CM |
| S83.096A | Other dislocation of unspecified patella, initial encounter       | Diagnosis     | ICD-10-CM |
| S83.096D | Other dislocation of unspecified patella, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S83.096S | Other dislocation of unspecified patella, sequela                 | Diagnosis     | ICD-10-CM |
| S83.1    | Subluxation and dislocation of knee                               | Diagnosis     | ICD-10-CM |
| S83.10   | Unspecified subluxation and dislocation of knee                   | Diagnosis     | ICD-10-CM |
| S83.101  | Unspecified subluxation of right knee                             | Diagnosis     | ICD-10-CM |
| S83.101A | Unspecified subluxation of right knee, initial encounter          | Diagnosis     | ICD-10-CM |
| S83.101D | Unspecified subluxation of right knee, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S83.101S | Unspecified subluxation of right knee, sequela                    | Diagnosis     | ICD-10-CM |
| S83.102  | Unspecified subluxation of left knee                              | Diagnosis     | ICD-10-CM |
| S83.102A | Unspecified subluxation of left knee, initial encounter           | Diagnosis     | ICD-10-CM |
| S83.102D | Unspecified subluxation of left knee, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S83.102S | Unspecified subluxation of left knee, sequela                     | Diagnosis     | ICD-10-CM |
| S83.103  | Unspecified subluxation of unspecified knee                       | Diagnosis     | ICD-10-CM |
| S83.103A | Unspecified subluxation of unspecified knee, initial encounter    | Diagnosis     | ICD-10-CM |
| S83.103D | Unspecified subluxation of unspecified knee, subsequent encounter | Diagnosis     | ICD-10-CM |
| S83.103S | Unspecified subluxation of unspecified knee, sequela              | Diagnosis     | ICD-10-CM |
| S83.104  | Unspecified dislocation of right knee                             | Diagnosis     | ICD-10-CM |
| S83.104A | Unspecified dislocation of right knee, initial encounter          | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S83.104D | Unspecified dislocation of right knee, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S83.104S | Unspecified dislocation of right knee, sequela   | Diagnosis     | ICD-10-CM |
| S83.105  | Unspecified dislocation of left knee   | Diagnosis     | ICD-10-CM |
| S83.105A | Unspecified dislocation of left knee, initial encounter                                | Diagnosis     | ICD-10-CM |
| S83.105D | Unspecified dislocation of left knee, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S83.105S | Unspecified dislocation of left knee, sequela  | Diagnosis     | ICD-10-CM |
| S83.106  | Unspecified dislocation of unspecified knee  | Diagnosis     | ICD-10-CM |
| S83.106A | Unspecified dislocation of unspecified knee, initial encounter                         | Diagnosis     | ICD-10-CM |
| S83.106D | Unspecified dislocation of unspecified knee, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S83.106S | Unspecified dislocation of unspecified knee, sequela                                   | Diagnosis     | ICD-10-CM |
| S83.11   | Anterior subluxation and dislocation of proximal end of tibia                          | Diagnosis     | ICD-10-CM |
| S83.111  | Anterior subluxation of proximal end of tibia, right knee                              | Diagnosis     | ICD-10-CM |
| S83.111A | Anterior subluxation of proximal end of tibia, right knee, initial encounter           | Diagnosis     | ICD-10-CM |
| S83.111D | Anterior subluxation of proximal end of tibia, right knee, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S83.111S | Anterior subluxation of proximal end of tibia, right knee, sequela                     | Diagnosis     | ICD-10-CM |
| S83.112  | Anterior subluxation of proximal end of tibia, left knee                               | Diagnosis     | ICD-10-CM |
| S83.112A | Anterior subluxation of proximal end of tibia, left knee, initial encounter            | Diagnosis     | ICD-10-CM |
| S83.112D | Anterior subluxation of proximal end of tibia, left knee, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S83.112S | Anterior subluxation of proximal end of tibia, left knee, sequela                      | Diagnosis     | ICD-10-CM |
| S83.113  | Anterior subluxation of proximal end of tibia, unspecified knee                        | Diagnosis     | ICD-10-CM |
| S83.113A | Anterior subluxation of proximal end of tibia, unspecified knee, initial encounter     | Diagnosis     | ICD-10-CM |
| S83.113D | Anterior subluxation of proximal end of tibia, unspecified knee, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S83.113S | Anterior subluxation of proximal end of tibia, unspecified knee, sequela               | Diagnosis     | ICD-10-CM |
| S83.114  | Anterior dislocation of proximal end of tibia, right knee                              | Diagnosis     | ICD-10-CM |
| S83.114A | Anterior dislocation of proximal end of tibia, right knee, initial encounter           | Diagnosis     | ICD-10-CM |
| S83.114D | Anterior dislocation of proximal end of tibia, right knee, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S83.114S | Anterior dislocation of proximal end of tibia, right knee, sequela                     | Diagnosis     | ICD-10-CM |
| S83.115  | Anterior dislocation of proximal end of tibia, left knee                               | Diagnosis     | ICD-10-CM |
| S83.115A | Anterior dislocation of proximal end of tibia, left knee, initial encounter            | Diagnosis     | ICD-10-CM |
| S83.115D | Anterior dislocation of proximal end of tibia, left knee, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S83.115S | Anterior dislocation of proximal end of tibia, left knee, sequela                      | Diagnosis     | ICD-10-CM |
| S83.116  | Anterior dislocation of proximal end of tibia, unspecified knee                        | Diagnosis     | ICD-10-CM |
| S83.116A | Anterior dislocation of proximal end of tibia, unspecified knee, initial encounter     | Diagnosis     | ICD-10-CM |
| S83.116D | Anterior dislocation of proximal end of tibia, unspecified knee, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S83.116S | Anterior dislocation of proximal end of tibia, unspecified knee, sequela               | Diagnosis     | ICD-10-CM |
| S83.12   | Posterior subluxation and dislocation of proximal end of tibia                         | Diagnosis     | ICD-10-CM |
| S83.121  | Posterior subluxation of proximal end of tibia, right knee                             | Diagnosis     | ICD-10-CM |
| S83.121A | Posterior subluxation of proximal end of tibia, right knee, initial encounter          | Diagnosis     | ICD-10-CM |
| S83.121D | Posterior subluxation of proximal end of tibia, right knee, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S83.121S | Posterior subluxation of proximal end of tibia, right knee, sequela                    | Diagnosis     | ICD-10-CM |
| S83.122  | Posterior subluxation of proximal end of tibia, left knee                              | Diagnosis     | ICD-10-CM |
| S83.122A | Posterior subluxation of proximal end of tibia, left knee, initial encounter           | Diagnosis     | ICD-10-CM |
| S83.122D | Posterior subluxation of proximal end of tibia, left knee, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S83.122S | Posterior subluxation of proximal end of tibia, left knee, sequela                     | Diagnosis     | ICD-10-CM |
| S83.123  | Posterior subluxation of proximal end of tibia, unspecified knee                       | Diagnosis     | ICD-10-CM |
| S83.123A | Posterior subluxation of proximal end of tibia, unspecified knee, initial encounter    | Diagnosis     | ICD-10-CM |
| S83.123D | Posterior subluxation of proximal end of tibia, unspecified knee, subsequent encounter | Diagnosis     | ICD-10-CM |
| S83.123S | Posterior subluxation of proximal end of tibia, unspecified knee, sequela              | Diagnosis     | ICD-10-CM |
| S83.124  | Posterior dislocation of proximal end of tibia, right knee                             | Diagnosis     | ICD-10-CM |
| S83.124A | Posterior dislocation of proximal end of tibia, right knee, initial encounter          | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S83.124D | Posterior dislocation of proximal end of tibia, right knee, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S83.124S | Posterior dislocation of proximal end of tibia, right knee, sequela                    | Diagnosis     | ICD-10-CM |
| S83.125  | Posterior dislocation of proximal end of tibia, left knee                              | Diagnosis     | ICD-10-CM |
| S83.125A | Posterior dislocation of proximal end of tibia, left knee, initial encounter           | Diagnosis     | ICD-10-CM |
| S83.125D | Posterior dislocation of proximal end of tibia, left knee, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S83.125S | Posterior dislocation of proximal end of tibia, left knee, sequela                     | Diagnosis     | ICD-10-CM |
| S83.126  | Posterior dislocation of proximal end of tibia, unspecified knee                       | Diagnosis     | ICD-10-CM |
| S83.126A | Posterior dislocation of proximal end of tibia, unspecified knee, initial encounter    | Diagnosis     | ICD-10-CM |
| S83.126D | Posterior dislocation of proximal end of tibia, unspecified knee, subsequent encounter | Diagnosis     | ICD-10-CM |
| S83.126S | Posterior dislocation of proximal end of tibia, unspecified knee, sequela              | Diagnosis     | ICD-10-CM |
| S83.13   | Medial subluxation and dislocation of proximal end of tibia                            | Diagnosis     | ICD-10-CM |
| S83.131  | Medial subluxation of proximal end of tibia, right knee                                | Diagnosis     | ICD-10-CM |
| S83.131A | Medial subluxation of proximal end of tibia, right knee, initial encounter             | Diagnosis     | ICD-10-CM |
| S83.131D | Medial subluxation of proximal end of tibia, right knee, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S83.131S | Medial subluxation of proximal end of tibia, right knee, sequela                       | Diagnosis     | ICD-10-CM |
| S83.132  | Medial subluxation of proximal end of tibia, left knee                                 | Diagnosis     | ICD-10-CM |
| S83.132A | Medial subluxation of proximal end of tibia, left knee, initial encounter              | Diagnosis     | ICD-10-CM |
| S83.132D | Medial subluxation of proximal end of tibia, left knee, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S83.132S | Medial subluxation of proximal end of tibia, left knee, sequela                        | Diagnosis     | ICD-10-CM |
| S83.133  | Medial subluxation of proximal end of tibia, unspecified knee                          | Diagnosis     | ICD-10-CM |
| S83.133A | Medial subluxation of proximal end of tibia, unspecified knee, initial encounter       | Diagnosis     | ICD-10-CM |
| S83.133D | Medial subluxation of proximal end of tibia, unspecified knee, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S83.133S | Medial subluxation of proximal end of tibia, unspecified knee, sequela                 | Diagnosis     | ICD-10-CM |
| S83.134  | Medial dislocation of proximal end of tibia, right knee                                | Diagnosis     | ICD-10-CM |
| S83.134A | Medial dislocation of proximal end of tibia, right knee, initial encounter             | Diagnosis     | ICD-10-CM |
| S83.134D | Medial dislocation of proximal end of tibia, right knee, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S83.134S | Medial dislocation of proximal end of tibia, right knee, sequela                       | Diagnosis     | ICD-10-CM |
| S83.135  | Medial dislocation of proximal end of tibia, left knee                                 | Diagnosis     | ICD-10-CM |
| S83.135A | Medial dislocation of proximal end of tibia, left knee, initial encounter              | Diagnosis     | ICD-10-CM |
| S83.135D | Medial dislocation of proximal end of tibia, left knee, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S83.135S | Medial dislocation of proximal end of tibia, left knee, sequela                        | Diagnosis     | ICD-10-CM |
| S83.136  | Medial dislocation of proximal end of tibia, unspecified knee                          | Diagnosis     | ICD-10-CM |
| S83.136A | Medial dislocation of proximal end of tibia, unspecified knee, initial encounter       | Diagnosis     | ICD-10-CM |
| S83.136D | Medial dislocation of proximal end of tibia, unspecified knee, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S83.136S | Medial dislocation of proximal end of tibia, unspecified knee, sequela                 | Diagnosis     | ICD-10-CM |
| S83.14   | Lateral subluxation and dislocation of proximal end of tibia                           | Diagnosis     | ICD-10-CM |
| S83.141  | Lateral subluxation of proximal end of tibia, right knee                               | Diagnosis     | ICD-10-CM |
| S83.141A | Lateral subluxation of proximal end of tibia, right knee, initial encounter            | Diagnosis     | ICD-10-CM |
| S83.141D | Lateral subluxation of proximal end of tibia, right knee, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S83.141S | Lateral subluxation of proximal end of tibia, right knee, sequela                      | Diagnosis     | ICD-10-CM |
| S83.142  | Lateral subluxation of proximal end of tibia, left knee                                | Diagnosis     | ICD-10-CM |
| S83.142A | Lateral subluxation of proximal end of tibia, left knee, initial encounter             | Diagnosis     | ICD-10-CM |
| S83.142D | Lateral subluxation of proximal end of tibia, left knee, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S83.142S | Lateral subluxation of proximal end of tibia, left knee, sequela                       | Diagnosis     | ICD-10-CM |
| S83.143  | Lateral subluxation of proximal end of tibia, unspecified knee                         | Diagnosis     | ICD-10-CM |
| S83.143A | Lateral subluxation of proximal end of tibia, unspecified knee, initial encounter      | Diagnosis     | ICD-10-CM |
| S83.143D | Lateral subluxation of proximal end of tibia, unspecified knee, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S83.143S | Lateral subluxation of proximal end of tibia, unspecified knee, sequela                | Diagnosis     | ICD-10-CM |
| S83.144  | Lateral dislocation of proximal end of tibia, right knee                               | Diagnosis     | ICD-10-CM |
| S83.144A | Lateral dislocation of proximal end of tibia, right knee, initial encounter            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S83.144D | Lateral dislocation of proximal end of tibia, right knee, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S83.144S | Lateral dislocation of proximal end of tibia, right knee, sequela                                  | Diagnosis     | ICD-10-CM |
| S83.145  | Lateral dislocation of proximal end of tibia, left knee  | Diagnosis     | ICD-10-CM |
| S83.145A | Lateral dislocation of proximal end of tibia, left knee, initial encounter                         | Diagnosis     | ICD-10-CM |
| S83.145D | Lateral dislocation of proximal end of tibia, left knee, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S83.145S | Lateral dislocation of proximal end of tibia, left knee, sequela                                   | Diagnosis     | ICD-10-CM |
| S83.146  | Lateral dislocation of proximal end of tibia, unspecified knee                                     | Diagnosis     | ICD-10-CM |
| S83.146A | Lateral dislocation of proximal end of tibia, unspecified knee, initial encounter                  | Diagnosis     | ICD-10-CM |
| S83.146D | Lateral dislocation of proximal end of tibia, unspecified knee, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S83.146S | Lateral dislocation of proximal end of tibia, unspecified knee, sequela                            | Diagnosis     | ICD-10-CM |
| S83.19   | Other subluxation and dislocation of knee  | Diagnosis     | ICD-10-CM |
| S83.191  | Other subluxation of right knee  | Diagnosis     | ICD-10-CM |
| S83.191A | Other subluxation of right knee, initial encounter   | Diagnosis     | ICD-10-CM |
| S83.191D | Other subluxation of right knee, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S83.191S | Other subluxation of right knee, sequela   | Diagnosis     | ICD-10-CM |
| S83.192  | Other subluxation of left knee   | Diagnosis     | ICD-10-CM |
| S83.192A | Other subluxation of left knee, initial encounter  | Diagnosis     | ICD-10-CM |
| S83.192D | Other subluxation of left knee, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S83.192S | Other subluxation of left knee, sequela  | Diagnosis     | ICD-10-CM |
| S83.193  | Other subluxation of unspecified knee  | Diagnosis     | ICD-10-CM |
| S83.193A | Other subluxation of unspecified knee, initial encounter   | Diagnosis     | ICD-10-CM |
| S83.193D | Other subluxation of unspecified knee, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S83.193S | Other subluxation of unspecified knee, sequela   | Diagnosis     | ICD-10-CM |
| S83.194  | Other dislocation of right knee  | Diagnosis     | ICD-10-CM |
| S83.194A | Other dislocation of right knee, initial encounter   | Diagnosis     | ICD-10-CM |
| S83.194D | Other dislocation of right knee, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S83.194S | Other dislocation of right knee, sequela   | Diagnosis     | ICD-10-CM |
| S83.195  | Other dislocation of left knee   | Diagnosis     | ICD-10-CM |
| S83.195A | Other dislocation of left knee, initial encounter  | Diagnosis     | ICD-10-CM |
| S83.195D | Other dislocation of left knee, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S83.195S | Other dislocation of left knee, sequela  | Diagnosis     | ICD-10-CM |
| S83.196  | Other dislocation of unspecified knee  | Diagnosis     | ICD-10-CM |
| S83.196A | Other dislocation of unspecified knee, initial encounter   | Diagnosis     | ICD-10-CM |
| S83.196D | Other dislocation of unspecified knee, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S83.196S | Other dislocation of unspecified knee, sequela   | Diagnosis     | ICD-10-CM |
| S83.2    | Tear of meniscus, current injury   | Diagnosis     | ICD-10-CM |
| S83.20   | Tear of unspecified meniscus, current injury   | Diagnosis     | ICD-10-CM |
| S83.200  | Bucket-handle tear of unspecified meniscus, current injury, right knee                             | Diagnosis     | ICD-10-CM |
| S83.200A | Bucket-handle tear of unspecified meniscus, current injury, right knee, initial encounter          | Diagnosis     | ICD-10-CM |
| S83.200D | Bucket-handle tear of unspecified meniscus, current injury, right knee, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S83.200S | Bucket-handle tear of unspecified meniscus, current injury, right knee, sequela                    | Diagnosis     | ICD-10-CM |
| S83.201  | Bucket-handle tear of unspecified meniscus, current injury, left knee                              | Diagnosis     | ICD-10-CM |
| S83.201A | Bucket-handle tear of unspecified meniscus, current injury, left knee, initial encounter           | Diagnosis     | ICD-10-CM |
| S83.201D | Bucket-handle tear of unspecified meniscus, current injury, left knee, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S83.201S | Bucket-handle tear of unspecified meniscus, current injury, left knee, sequela                     | Diagnosis     | ICD-10-CM |
| S83.202  | Bucket-handle tear of unspecified meniscus, current injury, unspecified knee                       | Diagnosis     | ICD-10-CM |
| S83.202A | Bucket-handle tear of unspecified meniscus, current injury, unspecified knee, initial encounter    | Diagnosis     | ICD-10-CM |
| S83.202D | Bucket-handle tear of unspecified meniscus, current injury, unspecified knee, subsequent encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S83.202S | Bucket-handle tear of unspecified meniscus, current injury, unspecified knee, sequela            | Diagnosis     | ICD-10-CM |
| S83.203  | Other tear of unspecified meniscus, current injury, right knee                                   | Diagnosis     | ICD-10-CM |
| S83.203A | Other tear of unspecified meniscus, current injury, right knee, initial encounter                | Diagnosis     | ICD-10-CM |
| S83.203D | Other tear of unspecified meniscus, current injury, right knee, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S83.203S | Other tear of unspecified meniscus, current injury, right knee, sequela                          | Diagnosis     | ICD-10-CM |
| S83.204  | Other tear of unspecified meniscus, current injury, left knee                                    | Diagnosis     | ICD-10-CM |
| S83.204A | Other tear of unspecified meniscus, current injury, left knee, initial encounter                 | Diagnosis     | ICD-10-CM |
| S83.204D | Other tear of unspecified meniscus, current injury, left knee, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S83.204S | Other tear of unspecified meniscus, current injury, left knee, sequela                           | Diagnosis     | ICD-10-CM |
| S83.205  | Other tear of unspecified meniscus, current injury, unspecified knee                             | Diagnosis     | ICD-10-CM |
| S83.205A | Other tear of unspecified meniscus, current injury, unspecified knee, initial encounter          | Diagnosis     | ICD-10-CM |
| S83.205D | Other tear of unspecified meniscus, current injury, unspecified knee, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S83.205S | Other tear of unspecified meniscus, current injury, unspecified knee, sequela                    | Diagnosis     | ICD-10-CM |
| S83.206  | Unspecified tear of unspecified meniscus, current injury, right knee                             | Diagnosis     | ICD-10-CM |
| S83.206A | Unspecified tear of unspecified meniscus, current injury, right knee, initial encounter          | Diagnosis     | ICD-10-CM |
| S83.206D | Unspecified tear of unspecified meniscus, current injury, right knee, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S83.206S | Unspecified tear of unspecified meniscus, current injury, right knee, sequela                    | Diagnosis     | ICD-10-CM |
| S83.207  | Unspecified tear of unspecified meniscus, current injury, left knee                              | Diagnosis     | ICD-10-CM |
| S83.207A | Unspecified tear of unspecified meniscus, current injury, left knee, initial encounter           | Diagnosis     | ICD-10-CM |
| S83.207D | Unspecified tear of unspecified meniscus, current injury, left knee, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S83.207S | Unspecified tear of unspecified meniscus, current injury, left knee, sequela                     | Diagnosis     | ICD-10-CM |
| S83.209  | Unspecified tear of unspecified meniscus, current injury, unspecified knee                       | Diagnosis     | ICD-10-CM |
| S83.209A | Unspecified tear of unspecified meniscus, current injury, unspecified knee, initial encounter    | Diagnosis     | ICD-10-CM |
| S83.209D | Unspecified tear of unspecified meniscus, current injury, unspecified knee, subsequent encounter | Diagnosis     | ICD-10-CM |
| S83.209S | Unspecified tear of unspecified meniscus, current injury, unspecified knee, sequela              | Diagnosis     | ICD-10-CM |
| S83.21   | Bucket-handle tear of medial meniscus, current injury  | Diagnosis     | ICD-10-CM |
| S83.211  | Bucket-handle tear of medial meniscus, current injury, right knee                                | Diagnosis     | ICD-10-CM |
| S83.211A | Bucket-handle tear of medial meniscus, current injury, right knee, initial encounter             | Diagnosis     | ICD-10-CM |
| S83.211D | Bucket-handle tear of medial meniscus, current injury, right knee, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S83.211S | Bucket-handle tear of medial meniscus, current injury, right knee, sequela                       | Diagnosis     | ICD-10-CM |
| S83.212  | Bucket-handle tear of medial meniscus, current injury, left knee                                 | Diagnosis     | ICD-10-CM |
| S83.212A | Bucket-handle tear of medial meniscus, current injury, left knee, initial encounter              | Diagnosis     | ICD-10-CM |
| S83.212D | Bucket-handle tear of medial meniscus, current injury, left knee, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S83.212S | Bucket-handle tear of medial meniscus, current injury, left knee, sequela                        | Diagnosis     | ICD-10-CM |
| S83.219  | Bucket-handle tear of medial meniscus, current injury, unspecified knee                          | Diagnosis     | ICD-10-CM |
| S83.219A | Bucket-handle tear of medial meniscus, current injury, unspecified knee, initial encounter       | Diagnosis     | ICD-10-CM |
| S83.219D | Bucket-handle tear of medial meniscus, current injury, unspecified knee, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S83.219S | Bucket-handle tear of medial meniscus, current injury, unspecified knee, sequela                 | Diagnosis     | ICD-10-CM |
| S83.22   | Peripheral tear of medial meniscus, current injury   | Diagnosis     | ICD-10-CM |
| S83.221  | Peripheral tear of medial meniscus, current injury, right knee                                   | Diagnosis     | ICD-10-CM |
| S83.221A | Peripheral tear of medial meniscus, current injury, right knee, initial encounter                | Diagnosis     | ICD-10-CM |
| S83.221D | Peripheral tear of medial meniscus, current injury, right knee, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S83.221S | Peripheral tear of medial meniscus, current injury, right knee, sequela                          | Diagnosis     | ICD-10-CM |
| S83.222  | Peripheral tear of medial meniscus, current injury, left knee                                    | Diagnosis     | ICD-10-CM |
| S83.222A | Peripheral tear of medial meniscus, current injury, left knee, initial encounter                 | Diagnosis     | ICD-10-CM |
| S83.222D | Peripheral tear of medial meniscus, current injury, left knee, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S83.222S | Peripheral tear of medial meniscus, current injury, left knee, sequela                           | Diagnosis     | ICD-10-CM |
| S83.229  | Peripheral tear of medial meniscus, current injury, unspecified knee                             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S83.229A | Peripheral tear of medial meniscus, current injury, unspecified knee, initial encounter        | Diagnosis     | ICD-10-CM |
| S83.229D | Peripheral tear of medial meniscus, current injury, unspecified knee, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S83.229S | Peripheral tear of medial meniscus, current injury, unspecified knee, sequela                  | Diagnosis     | ICD-10-CM |
| S83.23   | Complex tear of medial meniscus, current injury  | Diagnosis     | ICD-10-CM |
| S83.231  | Complex tear of medial meniscus, current injury, right knee                                    | Diagnosis     | ICD-10-CM |
| S83.231A | Complex tear of medial meniscus, current injury, right knee, initial encounter                 | Diagnosis     | ICD-10-CM |
| S83.231D | Complex tear of medial meniscus, current injury, right knee, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S83.231S | Complex tear of medial meniscus, current injury, right knee, sequela                           | Diagnosis     | ICD-10-CM |
| S83.232  | Complex tear of medial meniscus, current injury, left knee                                     | Diagnosis     | ICD-10-CM |
| S83.232A | Complex tear of medial meniscus, current injury, left knee, initial encounter                  | Diagnosis     | ICD-10-CM |
| S83.232D | Complex tear of medial meniscus, current injury, left knee, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S83.232S | Complex tear of medial meniscus, current injury, left knee, sequela                            | Diagnosis     | ICD-10-CM |
| S83.239  | Complex tear of medial meniscus, current injury, unspecified knee                              | Diagnosis     | ICD-10-CM |
| S83.239A | Complex tear of medial meniscus, current injury, unspecified knee, initial encounter           | Diagnosis     | ICD-10-CM |
| S83.239D | Complex tear of medial meniscus, current injury, unspecified knee, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S83.239S | Complex tear of medial meniscus, current injury, unspecified knee, sequela                     | Diagnosis     | ICD-10-CM |
| S83.24   | Other tear of medial meniscus, current injury  | Diagnosis     | ICD-10-CM |
| S83.241  | Other tear of medial meniscus, current injury, right knee                                      | Diagnosis     | ICD-10-CM |
| S83.241A | Other tear of medial meniscus, current injury, right knee, initial encounter                   | Diagnosis     | ICD-10-CM |
| S83.241D | Other tear of medial meniscus, current injury, right knee, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S83.241S | Other tear of medial meniscus, current injury, right knee, sequela                             | Diagnosis     | ICD-10-CM |
| S83.242  | Other tear of medial meniscus, current injury, left knee                                       | Diagnosis     | ICD-10-CM |
| S83.242A | Other tear of medial meniscus, current injury, left knee, initial encounter                    | Diagnosis     | ICD-10-CM |
| S83.242D | Other tear of medial meniscus, current injury, left knee, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S83.242S | Other tear of medial meniscus, current injury, left knee, sequela                              | Diagnosis     | ICD-10-CM |
| S83.249  | Other tear of medial meniscus, current injury, unspecified knee                                | Diagnosis     | ICD-10-CM |
| S83.249A | Other tear of medial meniscus, current injury, unspecified knee, initial encounter             | Diagnosis     | ICD-10-CM |
| S83.249D | Other tear of medial meniscus, current injury, unspecified knee, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S83.249S | Other tear of medial meniscus, current injury, unspecified knee, sequela                       | Diagnosis     | ICD-10-CM |
| S83.25   | Bucket-handle tear of lateral meniscus, current injury   | Diagnosis     | ICD-10-CM |
| S83.251  | Bucket-handle tear of lateral meniscus, current injury, right knee                             | Diagnosis     | ICD-10-CM |
| S83.251A | Bucket-handle tear of lateral meniscus, current injury, right knee, initial encounter          | Diagnosis     | ICD-10-CM |
| S83.251D | Bucket-handle tear of lateral meniscus, current injury, right knee, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S83.251S | Bucket-handle tear of lateral meniscus, current injury, right knee, sequela                    | Diagnosis     | ICD-10-CM |
| S83.252  | Bucket-handle tear of lateral meniscus, current injury, left knee                              | Diagnosis     | ICD-10-CM |
| S83.252A | Bucket-handle tear of lateral meniscus, current injury, left knee, initial encounter           | Diagnosis     | ICD-10-CM |
| S83.252D | Bucket-handle tear of lateral meniscus, current injury, left knee, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S83.252S | Bucket-handle tear of lateral meniscus, current injury, left knee, sequela                     | Diagnosis     | ICD-10-CM |
| S83.259  | Bucket-handle tear of lateral meniscus, current injury, unspecified knee                       | Diagnosis     | ICD-10-CM |
| S83.259A | Bucket-handle tear of lateral meniscus, current injury, unspecified knee, initial encounter    | Diagnosis     | ICD-10-CM |
| S83.259D | Bucket-handle tear of lateral meniscus, current injury, unspecified knee, subsequent encounter | Diagnosis     | ICD-10-CM |
| S83.259S | Bucket-handle tear of lateral meniscus, current injury, unspecified knee, sequela              | Diagnosis     | ICD-10-CM |
| S83.26   | Peripheral tear of lateral meniscus, current injury  | Diagnosis     | ICD-10-CM |
| S83.261  | Peripheral tear of lateral meniscus, current injury, right knee                                | Diagnosis     | ICD-10-CM |
| S83.261A | Peripheral tear of lateral meniscus, current injury, right knee, initial encounter             | Diagnosis     | ICD-10-CM |
| S83.261D | Peripheral tear of lateral meniscus, current injury, right knee, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S83.261S | Peripheral tear of lateral meniscus, current injury, right knee, sequela                       | Diagnosis     | ICD-10-CM |
| S83.262  | Peripheral tear of lateral meniscus, current injury, left knee                                 | Diagnosis     | ICD-10-CM |
| S83.262A | Peripheral tear of lateral meniscus, current injury, left knee, initial encounter              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S83.262D | Peripheral tear of lateral meniscus, current injury, left knee, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S83.262S | Peripheral tear of lateral meniscus, current injury, left knee, sequela                     | Diagnosis     | ICD-10-CM |
| S83.269  | Peripheral tear of lateral meniscus, current injury, unspecified knee                       | Diagnosis     | ICD-10-CM |
| S83.269A | Peripheral tear of lateral meniscus, current injury, unspecified knee, initial encounter    | Diagnosis     | ICD-10-CM |
| S83.269D | Peripheral tear of lateral meniscus, current injury, unspecified knee, subsequent encounter | Diagnosis     | ICD-10-CM |
| S83.269S | Peripheral tear of lateral meniscus, current injury, unspecified knee, sequela              | Diagnosis     | ICD-10-CM |
| S83.27   | Complex tear of lateral meniscus, current injury  | Diagnosis     | ICD-10-CM |
| S83.271  | Complex tear of lateral meniscus, current injury, right knee                                | Diagnosis     | ICD-10-CM |
| S83.271A | Complex tear of lateral meniscus, current injury, right knee, initial encounter             | Diagnosis     | ICD-10-CM |
| S83.271D | Complex tear of lateral meniscus, current injury, right knee, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S83.271S | Complex tear of lateral meniscus, current injury, right knee, sequela                       | Diagnosis     | ICD-10-CM |
| S83.272  | Complex tear of lateral meniscus, current injury, left knee                                 | Diagnosis     | ICD-10-CM |
| S83.272A | Complex tear of lateral meniscus, current injury, left knee, initial encounter              | Diagnosis     | ICD-10-CM |
| S83.272D | Complex tear of lateral meniscus, current injury, left knee, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S83.272S | Complex tear of lateral meniscus, current injury, left knee, sequela                        | Diagnosis     | ICD-10-CM |
| S83.279  | Complex tear of lateral meniscus, current injury, unspecified knee                          | Diagnosis     | ICD-10-CM |
| S83.279A | Complex tear of lateral meniscus, current injury, unspecified knee, initial encounter       | Diagnosis     | ICD-10-CM |
| S83.279D | Complex tear of lateral meniscus, current injury, unspecified knee, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S83.279S | Complex tear of lateral meniscus, current injury, unspecified knee, sequela                 | Diagnosis     | ICD-10-CM |
| S83.28   | Other tear of lateral meniscus, current injury  | Diagnosis     | ICD-10-CM |
| S83.281  | Other tear of lateral meniscus, current injury, right knee                                  | Diagnosis     | ICD-10-CM |
| S83.281A | Other tear of lateral meniscus, current injury, right knee, initial encounter               | Diagnosis     | ICD-10-CM |
| S83.281D | Other tear of lateral meniscus, current injury, right knee, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S83.281S | Other tear of lateral meniscus, current injury, right knee, sequela                         | Diagnosis     | ICD-10-CM |
| S83.282  | Other tear of lateral meniscus, current injury, left knee                                   | Diagnosis     | ICD-10-CM |
| S83.282A | Other tear of lateral meniscus, current injury, left knee, initial encounter                | Diagnosis     | ICD-10-CM |
| S83.282D | Other tear of lateral meniscus, current injury, left knee, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S83.282S | Other tear of lateral meniscus, current injury, left knee, sequela                          | Diagnosis     | ICD-10-CM |
| S83.289  | Other tear of lateral meniscus, current injury, unspecified knee                            | Diagnosis     | ICD-10-CM |
| S83.289A | Other tear of lateral meniscus, current injury, unspecified knee, initial encounter         | Diagnosis     | ICD-10-CM |
| S83.289D | Other tear of lateral meniscus, current injury, unspecified knee, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S83.289S | Other tear of lateral meniscus, current injury, unspecified knee, sequela                   | Diagnosis     | ICD-10-CM |
| S83.3    | Tear of articular cartilage of knee, current  | Diagnosis     | ICD-10-CM |
| S83.30   | Tear of articular cartilage of unspecified knee, current                                    | Diagnosis     | ICD-10-CM |
| S83.30XA | Tear of articular cartilage of unspecified knee, current, initial encounter                 | Diagnosis     | ICD-10-CM |
| S83.30XD | Tear of articular cartilage of unspecified knee, current, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S83.30XS | Tear of articular cartilage of unspecified knee, current, sequela                           | Diagnosis     | ICD-10-CM |
| S83.31   | Tear of articular cartilage of right knee, current  | Diagnosis     | ICD-10-CM |
| S83.31XA | Tear of articular cartilage of right knee, current, initial encounter                       | Diagnosis     | ICD-10-CM |
| S83.31XD | Tear of articular cartilage of right knee, current, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S83.31XS | Tear of articular cartilage of right knee, current, sequela                                 | Diagnosis     | ICD-10-CM |
| S83.32   | Tear of articular cartilage of left knee, current   | Diagnosis     | ICD-10-CM |
| S83.32XA | Tear of articular cartilage of left knee, current, initial encounter                        | Diagnosis     | ICD-10-CM |
| S83.32XD | Tear of articular cartilage of left knee, current, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S83.32XS | Tear of articular cartilage of left knee, current, sequela                                  | Diagnosis     | ICD-10-CM |
| S83.4    | Sprain of collateral ligament of knee   | Diagnosis     | ICD-10-CM |
| S83.40   | Sprain of unspecified collateral ligament of knee   | Diagnosis     | ICD-10-CM |
| S83.401  | Sprain of unspecified collateral ligament of right knee                                     | Diagnosis     | ICD-10-CM |
| S83.401A | Sprain of unspecified collateral ligament of right knee, initial encounter                  | Diagnosis     | ICD-10-CM |
| S83.401D | Sprain of unspecified collateral ligament of right knee, subsequent encounter               | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S83.401S | Sprain of unspecified collateral ligament of right knee, sequela                    | Diagnosis     | ICD-10-CM |
| S83.402  | Sprain of unspecified collateral ligament of left knee                              | Diagnosis     | ICD-10-CM |
| S83.402A | Sprain of unspecified collateral ligament of left knee, initial encounter           | Diagnosis     | ICD-10-CM |
| S83.402D | Sprain of unspecified collateral ligament of left knee, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S83.402S | Sprain of unspecified collateral ligament of left knee, sequela                     | Diagnosis     | ICD-10-CM |
| S83.409  | Sprain of unspecified collateral ligament of unspecified knee                       | Diagnosis     | ICD-10-CM |
| S83.409A | Sprain of unspecified collateral ligament of unspecified knee, initial encounter    | Diagnosis     | ICD-10-CM |
| S83.409D | Sprain of unspecified collateral ligament of unspecified knee, subsequent encounter | Diagnosis     | ICD-10-CM |
| S83.409S | Sprain of unspecified collateral ligament of unspecified knee, sequela              | Diagnosis     | ICD-10-CM |
| S83.41   | Sprain of medial collateral ligament of knee  | Diagnosis     | ICD-10-CM |
| S83.411  | Sprain of medial collateral ligament of right knee                                  | Diagnosis     | ICD-10-CM |
| S83.411A | Sprain of medial collateral ligament of right knee, initial encounter               | Diagnosis     | ICD-10-CM |
| S83.411D | Sprain of medial collateral ligament of right knee, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S83.411S | Sprain of medial collateral ligament of right knee, sequela                         | Diagnosis     | ICD-10-CM |
| S83.412  | Sprain of medial collateral ligament of left knee                                   | Diagnosis     | ICD-10-CM |
| S83.412A | Sprain of medial collateral ligament of left knee, initial encounter                | Diagnosis     | ICD-10-CM |
| S83.412D | Sprain of medial collateral ligament of left knee, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S83.412S | Sprain of medial collateral ligament of left knee, sequela                          | Diagnosis     | ICD-10-CM |
| S83.419  | Sprain of medial collateral ligament of unspecified knee                            | Diagnosis     | ICD-10-CM |
| S83.419A | Sprain of medial collateral ligament of unspecified knee, initial encounter         | Diagnosis     | ICD-10-CM |
| S83.419D | Sprain of medial collateral ligament of unspecified knee, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S83.419S | Sprain of medial collateral ligament of unspecified knee, sequela                   | Diagnosis     | ICD-10-CM |
| S83.42   | Sprain of lateral collateral ligament of knee                                       | Diagnosis     | ICD-10-CM |
| S83.421  | Sprain of lateral collateral ligament of right knee                                 | Diagnosis     | ICD-10-CM |
| S83.421A | Sprain of lateral collateral ligament of right knee, initial encounter              | Diagnosis     | ICD-10-CM |
| S83.421D | Sprain of lateral collateral ligament of right knee, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S83.421S | Sprain of lateral collateral ligament of right knee, sequela                        | Diagnosis     | ICD-10-CM |
| S83.422  | Sprain of lateral collateral ligament of left knee                                  | Diagnosis     | ICD-10-CM |
| S83.422A | Sprain of lateral collateral ligament of left knee, initial encounter               | Diagnosis     | ICD-10-CM |
| S83.422D | Sprain of lateral collateral ligament of left knee, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S83.422S | Sprain of lateral collateral ligament of left knee, sequela                         | Diagnosis     | ICD-10-CM |
| S83.429  | Sprain of lateral collateral ligament of unspecified knee                           | Diagnosis     | ICD-10-CM |
| S83.429A | Sprain of lateral collateral ligament of unspecified knee, initial encounter        | Diagnosis     | ICD-10-CM |
| S83.429D | Sprain of lateral collateral ligament of unspecified knee, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S83.429S | Sprain of lateral collateral ligament of unspecified knee, sequela                  | Diagnosis     | ICD-10-CM |
| S83.5    | Sprain of cruciate ligament of knee   | Diagnosis     | ICD-10-CM |
| S83.50   | Sprain of unspecified cruciate ligament of knee                                     | Diagnosis     | ICD-10-CM |
| S83.501  | Sprain of unspecified cruciate ligament of right knee                               | Diagnosis     | ICD-10-CM |
| S83.501A | Sprain of unspecified cruciate ligament of right knee, initial encounter            | Diagnosis     | ICD-10-CM |
| S83.501D | Sprain of unspecified cruciate ligament of right knee, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S83.501S | Sprain of unspecified cruciate ligament of right knee, sequela                      | Diagnosis     | ICD-10-CM |
| S83.502  | Sprain of unspecified cruciate ligament of left knee                                | Diagnosis     | ICD-10-CM |
| S83.502A | Sprain of unspecified cruciate ligament of left knee, initial encounter             | Diagnosis     | ICD-10-CM |
| S83.502D | Sprain of unspecified cruciate ligament of left knee, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S83.502S | Sprain of unspecified cruciate ligament of left knee, sequela                       | Diagnosis     | ICD-10-CM |
| S83.509  | Sprain of unspecified cruciate ligament of unspecified knee                         | Diagnosis     | ICD-10-CM |
| S83.509A | Sprain of unspecified cruciate ligament of unspecified knee, initial encounter      | Diagnosis     | ICD-10-CM |
| S83.509D | Sprain of unspecified cruciate ligament of unspecified knee, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S83.509S | Sprain of unspecified cruciate ligament of unspecified knee, sequela                | Diagnosis     | ICD-10-CM |
| S83.51   | Sprain of anterior cruciate ligament of knee  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S83.511  | Sprain of anterior cruciate ligament of right knee   | Diagnosis     | ICD-10-CM |
| S83.511A | Sprain of anterior cruciate ligament of right knee, initial encounter                          | Diagnosis     | ICD-10-CM |
| S83.511D | Sprain of anterior cruciate ligament of right knee, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S83.511S | Sprain of anterior cruciate ligament of right knee, sequela                                    | Diagnosis     | ICD-10-CM |
| S83.512  | Sprain of anterior cruciate ligament of left knee  | Diagnosis     | ICD-10-CM |
| S83.512A | Sprain of anterior cruciate ligament of left knee, initial encounter                           | Diagnosis     | ICD-10-CM |
| S83.512D | Sprain of anterior cruciate ligament of left knee, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S83.512S | Sprain of anterior cruciate ligament of left knee, sequela                                     | Diagnosis     | ICD-10-CM |
| S83.519  | Sprain of anterior cruciate ligament of unspecified knee                                       | Diagnosis     | ICD-10-CM |
| S83.519A | Sprain of anterior cruciate ligament of unspecified knee, initial encounter                    | Diagnosis     | ICD-10-CM |
| S83.519D | Sprain of anterior cruciate ligament of unspecified knee, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S83.519S | Sprain of anterior cruciate ligament of unspecified knee, sequela                              | Diagnosis     | ICD-10-CM |
| S83.52   | Sprain of posterior cruciate ligament of knee  | Diagnosis     | ICD-10-CM |
| S83.521  | Sprain of posterior cruciate ligament of right knee  | Diagnosis     | ICD-10-CM |
| S83.521A | Sprain of posterior cruciate ligament of right knee, initial encounter                         | Diagnosis     | ICD-10-CM |
| S83.521D | Sprain of posterior cruciate ligament of right knee, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S83.521S | Sprain of posterior cruciate ligament of right knee, sequela                                   | Diagnosis     | ICD-10-CM |
| S83.522  | Sprain of posterior cruciate ligament of left knee   | Diagnosis     | ICD-10-CM |
| S83.522A | Sprain of posterior cruciate ligament of left knee, initial encounter                          | Diagnosis     | ICD-10-CM |
| S83.522D | Sprain of posterior cruciate ligament of left knee, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S83.522S | Sprain of posterior cruciate ligament of left knee, sequela                                    | Diagnosis     | ICD-10-CM |
| S83.529  | Sprain of posterior cruciate ligament of unspecified knee                                      | Diagnosis     | ICD-10-CM |
| S83.529A | Sprain of posterior cruciate ligament of unspecified knee, initial encounter                   | Diagnosis     | ICD-10-CM |
| S83.529D | Sprain of posterior cruciate ligament of unspecified knee, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S83.529S | Sprain of posterior cruciate ligament of unspecified knee, sequela                             | Diagnosis     | ICD-10-CM |
| S83.6    | Sprain of the superior tibiofibular joint and ligament   | Diagnosis     | ICD-10-CM |
| S83.60   | Sprain of the superior tibiofibular joint and ligament, unspecified knee                       | Diagnosis     | ICD-10-CM |
| S83.60XA | Sprain of the superior tibiofibular joint and ligament, unspecified knee, initial encounter    | Diagnosis     | ICD-10-CM |
| S83.60XD | Sprain of the superior tibiofibular joint and ligament, unspecified knee, subsequent encounter | Diagnosis     | ICD-10-CM |
| S83.60XS | Sprain of the superior tibiofibular joint and ligament, unspecified knee, sequela              | Diagnosis     | ICD-10-CM |
| S83.61   | Sprain of the superior tibiofibular joint and ligament, right knee                             | Diagnosis     | ICD-10-CM |
| S83.61XA | Sprain of the superior tibiofibular joint and ligament, right knee, initial encounter          | Diagnosis     | ICD-10-CM |
| S83.61XD | Sprain of the superior tibiofibular joint and ligament, right knee, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S83.61XS | Sprain of the superior tibiofibular joint and ligament, right knee, sequela                    | Diagnosis     | ICD-10-CM |
| S83.62   | Sprain of the superior tibiofibular joint and ligament, left knee                              | Diagnosis     | ICD-10-CM |
| S83.62XA | Sprain of the superior tibiofibular joint and ligament, left knee, initial encounter           | Diagnosis     | ICD-10-CM |
| S83.62XD | Sprain of the superior tibiofibular joint and ligament, left knee, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S83.62XS | Sprain of the superior tibiofibular joint and ligament, left knee, sequela                     | Diagnosis     | ICD-10-CM |
| S83.8    | Sprain of other specified parts of knee  | Diagnosis     | ICD-10-CM |
| S83.8X   | Sprain of other specified parts of knee  | Diagnosis     | ICD-10-CM |
| S83.8X1  | Sprain of other specified parts of right knee  | Diagnosis     | ICD-10-CM |
| S83.8X1A | Sprain of other specified parts of right knee, initial encounter                               | Diagnosis     | ICD-10-CM |
| S83.8X1D | Sprain of other specified parts of right knee, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S83.8X1S | Sprain of other specified parts of right knee, sequela   | Diagnosis     | ICD-10-CM |
| S83.8X2  | Sprain of other specified parts of left knee   | Diagnosis     | ICD-10-CM |
| S83.8X2A | Sprain of other specified parts of left knee, initial encounter                                | Diagnosis     | ICD-10-CM |
| S83.8X2D | Sprain of other specified parts of left knee, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S83.8X2S | Sprain of other specified parts of left knee, sequela  | Diagnosis     | ICD-10-CM |
| S83.8X9  | Sprain of other specified parts of unspecified knee  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S83.8X9A | Sprain of other specified parts of unspecified knee, initial encounter                      | Diagnosis     | ICD-10-CM |
| S83.8X9D | Sprain of other specified parts of unspecified knee, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S83.8X9S | Sprain of other specified parts of unspecified knee, sequela                                | Diagnosis     | ICD-10-CM |
| S83.9    | Sprain of unspecified site of knee  | Diagnosis     | ICD-10-CM |
| S83.90   | Sprain of unspecified site of unspecified knee  | Diagnosis     | ICD-10-CM |
| S83.90XA | Sprain of unspecified site of unspecified knee, initial encounter                           | Diagnosis     | ICD-10-CM |
| S83.90XD | Sprain of unspecified site of unspecified knee, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S83.90XS | Sprain of unspecified site of unspecified knee, sequela                                     | Diagnosis     | ICD-10-CM |
| S83.91   | Sprain of unspecified site of right knee  | Diagnosis     | ICD-10-CM |
| S83.91XA | Sprain of unspecified site of right knee, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S83.91XD | Sprain of unspecified site of right knee, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S83.91XS | Sprain of unspecified site of right knee, sequela   | Diagnosis     | ICD-10-CM |
| S83.92   | Sprain of unspecified site of left knee   | Diagnosis     | ICD-10-CM |
| S83.92XA | Sprain of unspecified site of left knee, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S83.92XD | Sprain of unspecified site of left knee, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S83.92XS | Sprain of unspecified site of left knee, sequela  | Diagnosis     | ICD-10-CM |
| S84      | Injury of nerves at lower leg level   | Diagnosis     | ICD-10-CM |
| S84.0    | Injury of tibial nerve at lower leg level   | Diagnosis     | ICD-10-CM |
| S84.00   | Injury of tibial nerve at lower leg level, unspecified leg                                  | Diagnosis     | ICD-10-CM |
| S84.00XA | Injury of tibial nerve at lower leg level, unspecified leg, initial encounter               | Diagnosis     | ICD-10-CM |
| S84.00XD | Injury of tibial nerve at lower leg level, unspecified leg, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S84.00XS | Injury of tibial nerve at lower leg level, unspecified leg, sequela                         | Diagnosis     | ICD-10-CM |
| S84.01   | Injury of tibial nerve at lower leg level, right leg  | Diagnosis     | ICD-10-CM |
| S84.01XA | Injury of tibial nerve at lower leg level, right leg, initial encounter                     | Diagnosis     | ICD-10-CM |
| S84.01XD | Injury of tibial nerve at lower leg level, right leg, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S84.01XS | Injury of tibial nerve at lower leg level, right leg, sequela                               | Diagnosis     | ICD-10-CM |
| S84.02   | Injury of tibial nerve at lower leg level, left leg   | Diagnosis     | ICD-10-CM |
| S84.02XA | Injury of tibial nerve at lower leg level, left leg, initial encounter                      | Diagnosis     | ICD-10-CM |
| S84.02XD | Injury of tibial nerve at lower leg level, left leg, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S84.02XS | Injury of tibial nerve at lower leg level, left leg, sequela                                | Diagnosis     | ICD-10-CM |
| S84.1    | Injury of peroneal nerve at lower leg level   | Diagnosis     | ICD-10-CM |
| S84.10   | Injury of peroneal nerve at lower leg level, unspecified leg                                | Diagnosis     | ICD-10-CM |
| S84.10XA | Injury of peroneal nerve at lower leg level, unspecified leg, initial encounter             | Diagnosis     | ICD-10-CM |
| S84.10XD | Injury of peroneal nerve at lower leg level, unspecified leg, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S84.10XS | Injury of peroneal nerve at lower leg level, unspecified leg, sequela                       | Diagnosis     | ICD-10-CM |
| S84.11   | Injury of peroneal nerve at lower leg level, right leg                                      | Diagnosis     | ICD-10-CM |
| S84.11XA | Injury of peroneal nerve at lower leg level, right leg, initial encounter                   | Diagnosis     | ICD-10-CM |
| S84.11XD | Injury of peroneal nerve at lower leg level, right leg, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S84.11XS | Injury of peroneal nerve at lower leg level, right leg, sequela                             | Diagnosis     | ICD-10-CM |
| S84.12   | Injury of peroneal nerve at lower leg level, left leg                                       | Diagnosis     | ICD-10-CM |
| S84.12XA | Injury of peroneal nerve at lower leg level, left leg, initial encounter                    | Diagnosis     | ICD-10-CM |
| S84.12XD | Injury of peroneal nerve at lower leg level, left leg, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S84.12XS | Injury of peroneal nerve at lower leg level, left leg, sequela                              | Diagnosis     | ICD-10-CM |
| S84.2    | Injury of cutaneous sensory nerve at lower leg level  | Diagnosis     | ICD-10-CM |
| S84.20   | Injury of cutaneous sensory nerve at lower leg level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S84.20XA | Injury of cutaneous sensory nerve at lower leg level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S84.20XD | Injury of cutaneous sensory nerve at lower leg level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S84.20XS | Injury of cutaneous sensory nerve at lower leg level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S84.21   | Injury of cutaneous sensory nerve at lower leg level, right leg                             | Diagnosis     | ICD-10-CM |
| S84.21XA | Injury of cutaneous sensory nerve at lower leg level, right leg, initial encounter          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S84.21XD | Injury of cutaneous sensory nerve at lower leg level, right leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S84.21XS | Injury of cutaneous sensory nerve at lower leg level, right leg, sequela              | Diagnosis     | ICD-10-CM |
| S84.22   | Injury of cutaneous sensory nerve at lower leg level, left leg                        | Diagnosis     | ICD-10-CM |
| S84.22XA | Injury of cutaneous sensory nerve at lower leg level, left leg, initial encounter     | Diagnosis     | ICD-10-CM |
| S84.22XD | Injury of cutaneous sensory nerve at lower leg level, left leg, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S84.22XS | Injury of cutaneous sensory nerve at lower leg level, left leg, sequela               | Diagnosis     | ICD-10-CM |
| S84.8    | Injury of other nerves at lower leg level   | Diagnosis     | ICD-10-CM |
| S84.80   | Injury of other nerves at lower leg level   | Diagnosis     | ICD-10-CM |
| S84.801  | Injury of other nerves at lower leg level, right leg                                  | Diagnosis     | ICD-10-CM |
| S84.801A | Injury of other nerves at lower leg level, right leg, initial encounter               | Diagnosis     | ICD-10-CM |
| S84.801D | Injury of other nerves at lower leg level, right leg, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S84.801S | Injury of other nerves at lower leg level, right leg, sequela                         | Diagnosis     | ICD-10-CM |
| S84.802  | Injury of other nerves at lower leg level, left leg                                   | Diagnosis     | ICD-10-CM |
| S84.802A | Injury of other nerves at lower leg level, left leg, initial encounter                | Diagnosis     | ICD-10-CM |
| S84.802D | Injury of other nerves at lower leg level, left leg, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S84.802S | Injury of other nerves at lower leg level, left leg, sequela                          | Diagnosis     | ICD-10-CM |
| S84.809  | Injury of other nerves at lower leg level, unspecified leg                            | Diagnosis     | ICD-10-CM |
| S84.809A | Injury of other nerves at lower leg level, unspecified leg, initial encounter         | Diagnosis     | ICD-10-CM |
| S84.809D | Injury of other nerves at lower leg level, unspecified leg, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S84.809S | Injury of other nerves at lower leg level, unspecified leg, sequela                   | Diagnosis     | ICD-10-CM |
| S84.9    | Injury of unspecified nerve at lower leg level  | Diagnosis     | ICD-10-CM |
| S84.90   | Injury of unspecified nerve at lower leg level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S84.90XA | Injury of unspecified nerve at lower leg level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S84.90XD | Injury of unspecified nerve at lower leg level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S84.90XS | Injury of unspecified nerve at lower leg level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S84.91   | Injury of unspecified nerve at lower leg level, right leg                             | Diagnosis     | ICD-10-CM |
| S84.91XA | Injury of unspecified nerve at lower leg level, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S84.91XD | Injury of unspecified nerve at lower leg level, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S84.91XS | Injury of unspecified nerve at lower leg level, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S84.92   | Injury of unspecified nerve at lower leg level, left leg                              | Diagnosis     | ICD-10-CM |
| S84.92XA | Injury of unspecified nerve at lower leg level, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S84.92XD | Injury of unspecified nerve at lower leg level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S84.92XS | Injury of unspecified nerve at lower leg level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S85      | Injury of blood vessels at lower leg level  | Diagnosis     | ICD-10-CM |
| S85.0    | Injury of popliteal artery  | Diagnosis     | ICD-10-CM |
| S85.00   | Unspecified injury of popliteal artery  | Diagnosis     | ICD-10-CM |
| S85.001  | Unspecified injury of popliteal artery, right leg                                     | Diagnosis     | ICD-10-CM |
| S85.001A | Unspecified injury of popliteal artery, right leg, initial encounter                  | Diagnosis     | ICD-10-CM |
| S85.001D | Unspecified injury of popliteal artery, right leg, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S85.001S | Unspecified injury of popliteal artery, right leg, sequela                            | Diagnosis     | ICD-10-CM |
| S85.002  | Unspecified injury of popliteal artery, left leg                                      | Diagnosis     | ICD-10-CM |
| S85.002A | Unspecified injury of popliteal artery, left leg, initial encounter                   | Diagnosis     | ICD-10-CM |
| S85.002D | Unspecified injury of popliteal artery, left leg, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S85.002S | Unspecified injury of popliteal artery, left leg, sequela                             | Diagnosis     | ICD-10-CM |
| S85.009  | Unspecified injury of popliteal artery, unspecified leg                               | Diagnosis     | ICD-10-CM |
| S85.009A | Unspecified injury of popliteal artery, unspecified leg, initial encounter            | Diagnosis     | ICD-10-CM |
| S85.009D | Unspecified injury of popliteal artery, unspecified leg, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S85.009S | Unspecified injury of popliteal artery, unspecified leg, sequela                      | Diagnosis     | ICD-10-CM |
| S85.01   | Laceration of popliteal artery  | Diagnosis     | ICD-10-CM |
| S85.011  | Laceration of popliteal artery, right leg   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S85.011A | Laceration of popliteal artery, right leg, initial encounter                           | Diagnosis     | ICD-10-CM |
| S85.011D | Laceration of popliteal artery, right leg, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S85.011S | Laceration of popliteal artery, right leg, sequela                                     | Diagnosis     | ICD-10-CM |
| S85.012  | Laceration of popliteal artery, left leg   | Diagnosis     | ICD-10-CM |
| S85.012A | Laceration of popliteal artery, left leg, initial encounter                            | Diagnosis     | ICD-10-CM |
| S85.012D | Laceration of popliteal artery, left leg, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S85.012S | Laceration of popliteal artery, left leg, sequela                                      | Diagnosis     | ICD-10-CM |
| S85.019  | Laceration of popliteal artery, unspecified leg  | Diagnosis     | ICD-10-CM |
| S85.019A | Laceration of popliteal artery, unspecified leg, initial encounter                     | Diagnosis     | ICD-10-CM |
| S85.019D | Laceration of popliteal artery, unspecified leg, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S85.019S | Laceration of popliteal artery, unspecified leg, sequela                               | Diagnosis     | ICD-10-CM |
| S85.09   | Other specified injury of popliteal artery   | Diagnosis     | ICD-10-CM |
| S85.091  | Other specified injury of popliteal artery, right leg                                  | Diagnosis     | ICD-10-CM |
| S85.091A | Other specified injury of popliteal artery, right leg, initial encounter               | Diagnosis     | ICD-10-CM |
| S85.091D | Other specified injury of popliteal artery, right leg, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S85.091S | Other specified injury of popliteal artery, right leg, sequela                         | Diagnosis     | ICD-10-CM |
| S85.092  | Other specified injury of popliteal artery, left leg                                   | Diagnosis     | ICD-10-CM |
| S85.092A | Other specified injury of popliteal artery, left leg, initial encounter                | Diagnosis     | ICD-10-CM |
| S85.092D | Other specified injury of popliteal artery, left leg, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S85.092S | Other specified injury of popliteal artery, left leg, sequela                          | Diagnosis     | ICD-10-CM |
| S85.099  | Other specified injury of popliteal artery, unspecified leg                            | Diagnosis     | ICD-10-CM |
| S85.099A | Other specified injury of popliteal artery, unspecified leg, initial encounter         | Diagnosis     | ICD-10-CM |
| S85.099D | Other specified injury of popliteal artery, unspecified leg, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S85.099S | Other specified injury of popliteal artery, unspecified leg, sequela                   | Diagnosis     | ICD-10-CM |
| S85.1    | Injury of tibial artery  | Diagnosis     | ICD-10-CM |
| S85.10   | Unspecified injury of unspecified tibial artery  | Diagnosis     | ICD-10-CM |
| S85.101  | Unspecified injury of unspecified tibial artery, right leg                             | Diagnosis     | ICD-10-CM |
| S85.101A | Unspecified injury of unspecified tibial artery, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S85.101D | Unspecified injury of unspecified tibial artery, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S85.101S | Unspecified injury of unspecified tibial artery, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S85.102  | Unspecified injury of unspecified tibial artery, left leg                              | Diagnosis     | ICD-10-CM |
| S85.102A | Unspecified injury of unspecified tibial artery, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S85.102D | Unspecified injury of unspecified tibial artery, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S85.102S | Unspecified injury of unspecified tibial artery, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S85.109  | Unspecified injury of unspecified tibial artery, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S85.109A | Unspecified injury of unspecified tibial artery, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S85.109D | Unspecified injury of unspecified tibial artery, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S85.109S | Unspecified injury of unspecified tibial artery, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S85.11   | Laceration of unspecified tibial artery  | Diagnosis     | ICD-10-CM |
| S85.111  | Laceration of unspecified tibial artery, right leg                                     | Diagnosis     | ICD-10-CM |
| S85.111A | Laceration of unspecified tibial artery, right leg, initial encounter                  | Diagnosis     | ICD-10-CM |
| S85.111D | Laceration of unspecified tibial artery, right leg, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S85.111S | Laceration of unspecified tibial artery, right leg, sequela                            | Diagnosis     | ICD-10-CM |
| S85.112  | Laceration of unspecified tibial artery, left leg                                      | Diagnosis     | ICD-10-CM |
| S85.112A | Laceration of unspecified tibial artery, left leg, initial encounter                   | Diagnosis     | ICD-10-CM |
| S85.112D | Laceration of unspecified tibial artery, left leg, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S85.112S | Laceration of unspecified tibial artery, left leg, sequela                             | Diagnosis     | ICD-10-CM |
| S85.119  | Laceration of unspecified tibial artery, unspecified leg                               | Diagnosis     | ICD-10-CM |
| S85.119A | Laceration of unspecified tibial artery, unspecified leg, initial encounter            | Diagnosis     | ICD-10-CM |
| S85.119D | Laceration of unspecified tibial artery, unspecified leg, subsequent encounter         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S85.119S | Laceration of unspecified tibial artery, unspecified leg, sequela                          | Diagnosis     | ICD-10-CM |
| S85.12   | Other specified injury of unspecified tibial artery  | Diagnosis     | ICD-10-CM |
| S85.121  | Other specified injury of unspecified tibial artery, right leg                             | Diagnosis     | ICD-10-CM |
| S85.121A | Other specified injury of unspecified tibial artery, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S85.121D | Other specified injury of unspecified tibial artery, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S85.121S | Other specified injury of unspecified tibial artery, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S85.122  | Other specified injury of unspecified tibial artery, left leg                              | Diagnosis     | ICD-10-CM |
| S85.122A | Other specified injury of unspecified tibial artery, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S85.122D | Other specified injury of unspecified tibial artery, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S85.122S | Other specified injury of unspecified tibial artery, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S85.129  | Other specified injury of unspecified tibial artery, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S85.129A | Other specified injury of unspecified tibial artery, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S85.129D | Other specified injury of unspecified tibial artery, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S85.129S | Other specified injury of unspecified tibial artery, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S85.13   | Unspecified injury of anterior tibial artery   | Diagnosis     | ICD-10-CM |
| S85.131  | Unspecified injury of anterior tibial artery, right leg                                    | Diagnosis     | ICD-10-CM |
| S85.131A | Unspecified injury of anterior tibial artery, right leg, initial encounter                 | Diagnosis     | ICD-10-CM |
| S85.131D | Unspecified injury of anterior tibial artery, right leg, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S85.131S | Unspecified injury of anterior tibial artery, right leg, sequela                           | Diagnosis     | ICD-10-CM |
| S85.132  | Unspecified injury of anterior tibial artery, left leg                                     | Diagnosis     | ICD-10-CM |
| S85.132A | Unspecified injury of anterior tibial artery, left leg, initial encounter                  | Diagnosis     | ICD-10-CM |
| S85.132D | Unspecified injury of anterior tibial artery, left leg, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S85.132S | Unspecified injury of anterior tibial artery, left leg, sequela                            | Diagnosis     | ICD-10-CM |
| S85.139  | Unspecified injury of anterior tibial artery, unspecified leg                              | Diagnosis     | ICD-10-CM |
| S85.139A | Unspecified injury of anterior tibial artery, unspecified leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S85.139D | Unspecified injury of anterior tibial artery, unspecified leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S85.139S | Unspecified injury of anterior tibial artery, unspecified leg, sequela                     | Diagnosis     | ICD-10-CM |
| S85.14   | Laceration of anterior tibial artery   | Diagnosis     | ICD-10-CM |
| S85.141  | Laceration of anterior tibial artery, right leg  | Diagnosis     | ICD-10-CM |
| S85.141A | Laceration of anterior tibial artery, right leg, initial encounter                         | Diagnosis     | ICD-10-CM |
| S85.141D | Laceration of anterior tibial artery, right leg, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S85.141S | Laceration of anterior tibial artery, right leg, sequela                                   | Diagnosis     | ICD-10-CM |
| S85.142  | Laceration of anterior tibial artery, left leg   | Diagnosis     | ICD-10-CM |
| S85.142A | Laceration of anterior tibial artery, left leg, initial encounter                          | Diagnosis     | ICD-10-CM |
| S85.142D | Laceration of anterior tibial artery, left leg, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S85.142S | Laceration of anterior tibial artery, left leg, sequela                                    | Diagnosis     | ICD-10-CM |
| S85.149  | Laceration of anterior tibial artery, unspecified leg                                      | Diagnosis     | ICD-10-CM |
| S85.149A | Laceration of anterior tibial artery, unspecified leg, initial encounter                   | Diagnosis     | ICD-10-CM |
| S85.149D | Laceration of anterior tibial artery, unspecified leg, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S85.149S | Laceration of anterior tibial artery, unspecified leg, sequela                             | Diagnosis     | ICD-10-CM |
| S85.15   | Other specified injury of anterior tibial artery   | Diagnosis     | ICD-10-CM |
| S85.151  | Other specified injury of anterior tibial artery, right leg                                | Diagnosis     | ICD-10-CM |
| S85.151A | Other specified injury of anterior tibial artery, right leg, initial encounter             | Diagnosis     | ICD-10-CM |
| S85.151D | Other specified injury of anterior tibial artery, right leg, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S85.151S | Other specified injury of anterior tibial artery, right leg, sequela                       | Diagnosis     | ICD-10-CM |
| S85.152  | Other specified injury of anterior tibial artery, left leg                                 | Diagnosis     | ICD-10-CM |
| S85.152A | Other specified injury of anterior tibial artery, left leg, initial encounter              | Diagnosis     | ICD-10-CM |
| S85.152D | Other specified injury of anterior tibial artery, left leg, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S85.152S | Other specified injury of anterior tibial artery, left leg, sequela                        | Diagnosis     | ICD-10-CM |
| S85.159  | Other specified injury of anterior tibial artery, unspecified leg                          | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S85.159A | Other specified injury of anterior tibial artery, unspecified leg, initial encounter     | Diagnosis     | ICD-10-CM |
| S85.159D | Other specified injury of anterior tibial artery, unspecified leg, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S85.159S | Other specified injury of anterior tibial artery, unspecified leg, sequela               | Diagnosis     | ICD-10-CM |
| S85.16   | Unspecified injury of posterior tibial artery  | Diagnosis     | ICD-10-CM |
| S85.161  | Unspecified injury of posterior tibial artery, right leg                                 | Diagnosis     | ICD-10-CM |
| S85.161A | Unspecified injury of posterior tibial artery, right leg, initial encounter              | Diagnosis     | ICD-10-CM |
| S85.161D | Unspecified injury of posterior tibial artery, right leg, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S85.161S | Unspecified injury of posterior tibial artery, right leg, sequela                        | Diagnosis     | ICD-10-CM |
| S85.162  | Unspecified injury of posterior tibial artery, left leg                                  | Diagnosis     | ICD-10-CM |
| S85.162A | Unspecified injury of posterior tibial artery, left leg, initial encounter               | Diagnosis     | ICD-10-CM |
| S85.162D | Unspecified injury of posterior tibial artery, left leg, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S85.162S | Unspecified injury of posterior tibial artery, left leg, sequela                         | Diagnosis     | ICD-10-CM |
| S85.169  | Unspecified injury of posterior tibial artery, unspecified leg                           | Diagnosis     | ICD-10-CM |
| S85.169A | Unspecified injury of posterior tibial artery, unspecified leg, initial encounter        | Diagnosis     | ICD-10-CM |
| S85.169D | Unspecified injury of posterior tibial artery, unspecified leg, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S85.169S | Unspecified injury of posterior tibial artery, unspecified leg, sequela                  | Diagnosis     | ICD-10-CM |
| S85.17   | Laceration of posterior tibial artery  | Diagnosis     | ICD-10-CM |
| S85.171  | Laceration of posterior tibial artery, right leg   | Diagnosis     | ICD-10-CM |
| S85.171A | Laceration of posterior tibial artery, right leg, initial encounter                      | Diagnosis     | ICD-10-CM |
| S85.171D | Laceration of posterior tibial artery, right leg, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S85.171S | Laceration of posterior tibial artery, right leg, sequela                                | Diagnosis     | ICD-10-CM |
| S85.172  | Laceration of posterior tibial artery, left leg  | Diagnosis     | ICD-10-CM |
| S85.172A | Laceration of posterior tibial artery, left leg, initial encounter                       | Diagnosis     | ICD-10-CM |
| S85.172D | Laceration of posterior tibial artery, left leg, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S85.172S | Laceration of posterior tibial artery, left leg, sequela                                 | Diagnosis     | ICD-10-CM |
| S85.179  | Laceration of posterior tibial artery, unspecified leg                                   | Diagnosis     | ICD-10-CM |
| S85.179A | Laceration of posterior tibial artery, unspecified leg, initial encounter                | Diagnosis     | ICD-10-CM |
| S85.179D | Laceration of posterior tibial artery, unspecified leg, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S85.179S | Laceration of posterior tibial artery, unspecified leg, sequela                          | Diagnosis     | ICD-10-CM |
| S85.18   | Other specified injury of posterior tibial artery  | Diagnosis     | ICD-10-CM |
| S85.181  | Other specified injury of posterior tibial artery, right leg                             | Diagnosis     | ICD-10-CM |
| S85.181A | Other specified injury of posterior tibial artery, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S85.181D | Other specified injury of posterior tibial artery, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S85.181S | Other specified injury of posterior tibial artery, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S85.182  | Other specified injury of posterior tibial artery, left leg                              | Diagnosis     | ICD-10-CM |
| S85.182A | Other specified injury of posterior tibial artery, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S85.182D | Other specified injury of posterior tibial artery, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S85.182S | Other specified injury of posterior tibial artery, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S85.189  | Other specified injury of posterior tibial artery, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S85.189A | Other specified injury of posterior tibial artery, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S85.189D | Other specified injury of posterior tibial artery, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S85.189S | Other specified injury of posterior tibial artery, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S85.2    | Injury of peroneal artery  | Diagnosis     | ICD-10-CM |
| S85.20   | Unspecified injury of peroneal artery  | Diagnosis     | ICD-10-CM |
| S85.201  | Unspecified injury of peroneal artery, right leg   | Diagnosis     | ICD-10-CM |
| S85.201A | Unspecified injury of peroneal artery, right leg, initial encounter                      | Diagnosis     | ICD-10-CM |
| S85.201D | Unspecified injury of peroneal artery, right leg, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S85.201S | Unspecified injury of peroneal artery, right leg, sequela                                | Diagnosis     | ICD-10-CM |
| S85.202  | Unspecified injury of peroneal artery, left leg  | Diagnosis     | ICD-10-CM |
| S85.202A | Unspecified injury of peroneal artery, left leg, initial encounter                       | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S85.202D | Unspecified injury of peroneal artery, left leg, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S85.202S | Unspecified injury of peroneal artery, left leg, sequela   | Diagnosis     | ICD-10-CM |
| S85.209  | Unspecified injury of peroneal artery, unspecified leg   | Diagnosis     | ICD-10-CM |
| S85.209A | Unspecified injury of peroneal artery, unspecified leg, initial encounter                              | Diagnosis     | ICD-10-CM |
| S85.209D | Unspecified injury of peroneal artery, unspecified leg, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S85.209S | Unspecified injury of peroneal artery, unspecified leg, sequela  | Diagnosis     | ICD-10-CM |
| S85.21   | Laceration of peroneal artery  | Diagnosis     | ICD-10-CM |
| S85.211  | Laceration of peroneal artery, right leg   | Diagnosis     | ICD-10-CM |
| S85.211A | Laceration of peroneal artery, right leg, initial encounter  | Diagnosis     | ICD-10-CM |
| S85.211D | Laceration of peroneal artery, right leg, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S85.211S | Laceration of peroneal artery, right leg, sequela  | Diagnosis     | ICD-10-CM |
| S85.212  | Laceration of peroneal artery, left leg  | Diagnosis     | ICD-10-CM |
| S85.212A | Laceration of peroneal artery, left leg, initial encounter   | Diagnosis     | ICD-10-CM |
| S85.212D | Laceration of peroneal artery, left leg, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S85.212S | Laceration of peroneal artery, left leg, sequela   | Diagnosis     | ICD-10-CM |
| S85.219  | Laceration of peroneal artery, unspecified leg   | Diagnosis     | ICD-10-CM |
| S85.219A | Laceration of peroneal artery, unspecified leg, initial encounter                                      | Diagnosis     | ICD-10-CM |
| S85.219D | Laceration of peroneal artery, unspecified leg, subsequent encounter                                   | Diagnosis     | ICD-10-CM |
| S85.219S | Laceration of peroneal artery, unspecified leg, sequela  | Diagnosis     | ICD-10-CM |
| S85.29   | Other specified injury of peroneal artery  | Diagnosis     | ICD-10-CM |
| S85.291  | Other specified injury of peroneal artery, right leg   | Diagnosis     | ICD-10-CM |
| S85.291A | Other specified injury of peroneal artery, right leg, initial encounter                                | Diagnosis     | ICD-10-CM |
| S85.291D | Other specified injury of peroneal artery, right leg, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S85.291S | Other specified injury of peroneal artery, right leg, sequela  | Diagnosis     | ICD-10-CM |
| S85.292  | Other specified injury of peroneal artery, left leg  | Diagnosis     | ICD-10-CM |
| S85.292A | Other specified injury of peroneal artery, left leg, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S85.292D | Other specified injury of peroneal artery, left leg, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S85.292S | Other specified injury of peroneal artery, left leg, sequela   | Diagnosis     | ICD-10-CM |
| S85.299  | Other specified injury of peroneal artery, unspecified leg   | Diagnosis     | ICD-10-CM |
| S85.299A | Other specified injury of peroneal artery, unspecified leg, initial encounter                          | Diagnosis     | ICD-10-CM |
| S85.299D | Other specified injury of peroneal artery, unspecified leg, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S85.299S | Other specified injury of peroneal artery, unspecified leg, sequela                                    | Diagnosis     | ICD-10-CM |
| S85.3    | Injury of greater saphenous vein at lower leg level  | Diagnosis     | ICD-10-CM |
| S85.30   | Unspecified injury of greater saphenous vein at lower leg level  | Diagnosis     | ICD-10-CM |
| S85.301  | Unspecified injury of greater saphenous vein at lower leg level, right leg                             | Diagnosis     | ICD-10-CM |
| S85.301A | Unspecified injury of greater saphenous vein at lower leg level, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S85.301D | Unspecified injury of greater saphenous vein at lower leg level, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S85.301S | Unspecified injury of greater saphenous vein at lower leg level, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S85.302  | Unspecified injury of greater saphenous vein at lower leg level, left leg                              | Diagnosis     | ICD-10-CM |
| S85.302A | Unspecified injury of greater saphenous vein at lower leg level, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S85.302D | Unspecified injury of greater saphenous vein at lower leg level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S85.302S | Unspecified injury of greater saphenous vein at lower leg level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S85.309  | Unspecified injury of greater saphenous vein at lower leg level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S85.309A | Unspecified injury of greater saphenous vein at lower leg level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S85.309D | Unspecified injury of greater saphenous vein at lower leg level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S85.309S | Unspecified injury of greater saphenous vein at lower leg level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S85.31   | Laceration of greater saphenous vein at lower leg level  | Diagnosis     | ICD-10-CM |
| S85.311  | Laceration of greater saphenous vein at lower leg level, right leg   | Diagnosis     | ICD-10-CM |
| S85.311A | Laceration of greater saphenous vein at lower leg level, right leg, initial encounter                      | Diagnosis     | ICD-10-CM |
| S85.311D | Laceration of greater saphenous vein at lower leg level, right leg, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S85.311S | Laceration of greater saphenous vein at lower leg level, right leg, sequela                                | Diagnosis     | ICD-10-CM |
| S85.312  | Laceration of greater saphenous vein at lower leg level, left leg  | Diagnosis     | ICD-10-CM |
| S85.312A | Laceration of greater saphenous vein at lower leg level, left leg, initial encounter                       | Diagnosis     | ICD-10-CM |
| S85.312D | Laceration of greater saphenous vein at lower leg level, left leg, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S85.312S | Laceration of greater saphenous vein at lower leg level, left leg, sequela                                 | Diagnosis     | ICD-10-CM |
| S85.319  | Laceration of greater saphenous vein at lower leg level, unspecified leg                                   | Diagnosis     | ICD-10-CM |
| S85.319A | Laceration of greater saphenous vein at lower leg level, unspecified leg, initial encounter                | Diagnosis     | ICD-10-CM |
| S85.319D | Laceration of greater saphenous vein at lower leg level, unspecified leg, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S85.319S | Laceration of greater saphenous vein at lower leg level, unspecified leg, sequela                          | Diagnosis     | ICD-10-CM |
| S85.39   | Other specified injury of greater saphenous vein at lower leg level  | Diagnosis     | ICD-10-CM |
| S85.391  | Other specified injury of greater saphenous vein at lower leg level, right leg                             | Diagnosis     | ICD-10-CM |
| S85.391A | Other specified injury of greater saphenous vein at lower leg level, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S85.391D | Other specified injury of greater saphenous vein at lower leg level, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S85.391S | Other specified injury of greater saphenous vein at lower leg level, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S85.392  | Other specified injury of greater saphenous vein at lower leg level, left leg                              | Diagnosis     | ICD-10-CM |
| S85.392A | Other specified injury of greater saphenous vein at lower leg level, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S85.392D | Other specified injury of greater saphenous vein at lower leg level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S85.392S | Other specified injury of greater saphenous vein at lower leg level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S85.399  | Other specified injury of greater saphenous vein at lower leg level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S85.399A | Other specified injury of greater saphenous vein at lower leg level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S85.399D | Other specified injury of greater saphenous vein at lower leg level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S85.399S | Other specified injury of greater saphenous vein at lower leg level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S85.4    | Injury of lesser saphenous vein at lower leg level   | Diagnosis     | ICD-10-CM |
| S85.40   | Unspecified injury of lesser saphenous vein at lower leg level   | Diagnosis     | ICD-10-CM |
| S85.401  | Unspecified injury of lesser saphenous vein at lower leg level, right leg                                  | Diagnosis     | ICD-10-CM |
| S85.401A | Unspecified injury of lesser saphenous vein at lower leg level, right leg, initial encounter               | Diagnosis     | ICD-10-CM |
| S85.401D | Unspecified injury of lesser saphenous vein at lower leg level, right leg, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S85.401S | Unspecified injury of lesser saphenous vein at lower leg level, right leg, sequela                         | Diagnosis     | ICD-10-CM |
| S85.402  | Unspecified injury of lesser saphenous vein at lower leg level, left leg                                   | Diagnosis     | ICD-10-CM |
| S85.402A | Unspecified injury of lesser saphenous vein at lower leg level, left leg, initial encounter                | Diagnosis     | ICD-10-CM |
| S85.402D | Unspecified injury of lesser saphenous vein at lower leg level, left leg, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S85.402S | Unspecified injury of lesser saphenous vein at lower leg level, left leg, sequela                          | Diagnosis     | ICD-10-CM |
| S85.409  | Unspecified injury of lesser saphenous vein at lower leg level, unspecified leg                            | Diagnosis     | ICD-10-CM |
| S85.409A | Unspecified injury of lesser saphenous vein at lower leg level, unspecified leg, initial encounter         | Diagnosis     | ICD-10-CM |
| S85.409D | Unspecified injury of lesser saphenous vein at lower leg level, unspecified leg, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S85.409S | Unspecified injury of lesser saphenous vein at lower leg level, unspecified leg, sequela                   | Diagnosis     | ICD-10-CM |
| S85.41   | Laceration of lesser saphenous vein at lower leg level   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S85.411  | Laceration of lesser saphenous vein at lower leg level, right leg   | Diagnosis     | ICD-10-CM |
| S85.411A | Laceration of lesser saphenous vein at lower leg level, right leg, initial encounter                      | Diagnosis     | ICD-10-CM |
| S85.411D | Laceration of lesser saphenous vein at lower leg level, right leg, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S85.411S | Laceration of lesser saphenous vein at lower leg level, right leg, sequela                                | Diagnosis     | ICD-10-CM |
| S85.412  | Laceration of lesser saphenous vein at lower leg level, left leg  | Diagnosis     | ICD-10-CM |
| S85.412A | Laceration of lesser saphenous vein at lower leg level, left leg, initial encounter                       | Diagnosis     | ICD-10-CM |
| S85.412D | Laceration of lesser saphenous vein at lower leg level, left leg, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S85.412S | Laceration of lesser saphenous vein at lower leg level, left leg, sequela                                 | Diagnosis     | ICD-10-CM |
| S85.419  | Laceration of lesser saphenous vein at lower leg level, unspecified leg                                   | Diagnosis     | ICD-10-CM |
| S85.419A | Laceration of lesser saphenous vein at lower leg level, unspecified leg, initial encounter                | Diagnosis     | ICD-10-CM |
| S85.419D | Laceration of lesser saphenous vein at lower leg level, unspecified leg, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S85.419S | Laceration of lesser saphenous vein at lower leg level, unspecified leg, sequela                          | Diagnosis     | ICD-10-CM |
| S85.49   | Other specified injury of lesser saphenous vein at lower leg level  | Diagnosis     | ICD-10-CM |
| S85.491  | Other specified injury of lesser saphenous vein at lower leg level, right leg                             | Diagnosis     | ICD-10-CM |
| S85.491A | Other specified injury of lesser saphenous vein at lower leg level, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S85.491D | Other specified injury of lesser saphenous vein at lower leg level, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S85.491S | Other specified injury of lesser saphenous vein at lower leg level, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S85.492  | Other specified injury of lesser saphenous vein at lower leg level, left leg                              | Diagnosis     | ICD-10-CM |
| S85.492A | Other specified injury of lesser saphenous vein at lower leg level, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S85.492D | Other specified injury of lesser saphenous vein at lower leg level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S85.492S | Other specified injury of lesser saphenous vein at lower leg level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S85.499  | Other specified injury of lesser saphenous vein at lower leg level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S85.499A | Other specified injury of lesser saphenous vein at lower leg level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S85.499D | Other specified injury of lesser saphenous vein at lower leg level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S85.499S | Other specified injury of lesser saphenous vein at lower leg level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S85.5    | Injury of popliteal vein  | Diagnosis     | ICD-10-CM |
| S85.50   | Unspecified injury of popliteal vein  | Diagnosis     | ICD-10-CM |
| S85.501  | Unspecified injury of popliteal vein, right leg   | Diagnosis     | ICD-10-CM |
| S85.501A | Unspecified injury of popliteal vein, right leg, initial encounter  | Diagnosis     | ICD-10-CM |
| S85.501D | Unspecified injury of popliteal vein, right leg, subsequent encounter                                     | Diagnosis     | ICD-10-CM |
| S85.501S | Unspecified injury of popliteal vein, right leg, sequela  | Diagnosis     | ICD-10-CM |
| S85.502  | Unspecified injury of popliteal vein, left leg  | Diagnosis     | ICD-10-CM |
| S85.502A | Unspecified injury of popliteal vein, left leg, initial encounter   | Diagnosis     | ICD-10-CM |
| S85.502D | Unspecified injury of popliteal vein, left leg, subsequent encounter                                      | Diagnosis     | ICD-10-CM |
| S85.502S | Unspecified injury of popliteal vein, left leg, sequela   | Diagnosis     | ICD-10-CM |
| S85.509  | Unspecified injury of popliteal vein, unspecified leg   | Diagnosis     | ICD-10-CM |
| S85.509A | Unspecified injury of popliteal vein, unspecified leg, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S85.509D | Unspecified injury of popliteal vein, unspecified leg, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S85.509S | Unspecified injury of popliteal vein, unspecified leg, sequela  | Diagnosis     | ICD-10-CM |
| S85.51   | Laceration of popliteal vein  | Diagnosis     | ICD-10-CM |
| S85.511  | Laceration of popliteal vein, right leg   | Diagnosis     | ICD-10-CM |
| S85.511A | Laceration of popliteal vein, right leg, initial encounter  | Diagnosis     | ICD-10-CM |
| S85.511D | Laceration of popliteal vein, right leg, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S85.511S | Laceration of popliteal vein, right leg, sequela  | Diagnosis     | ICD-10-CM |
| S85.512  | Laceration of popliteal vein, left leg  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S85.512A | Laceration of popliteal vein, left leg, initial encounter   | Diagnosis     | ICD-10-CM |
| S85.512D | Laceration of popliteal vein, left leg, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S85.512S | Laceration of popliteal vein, left leg, sequela   | Diagnosis     | ICD-10-CM |
| S85.519  | Laceration of popliteal vein, unspecified leg   | Diagnosis     | ICD-10-CM |
| S85.519A | Laceration of popliteal vein, unspecified leg, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S85.519D | Laceration of popliteal vein, unspecified leg, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S85.519S | Laceration of popliteal vein, unspecified leg, sequela  | Diagnosis     | ICD-10-CM |
| S85.59   | Other specified injury of popliteal vein  | Diagnosis     | ICD-10-CM |
| S85.591  | Other specified injury of popliteal vein, right leg   | Diagnosis     | ICD-10-CM |
| S85.591A | Other specified injury of popliteal vein, right leg, initial encounter                              | Diagnosis     | ICD-10-CM |
| S85.591D | Other specified injury of popliteal vein, right leg, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S85.591S | Other specified injury of popliteal vein, right leg, sequela  | Diagnosis     | ICD-10-CM |
| S85.592  | Other specified injury of popliteal vein, left leg  | Diagnosis     | ICD-10-CM |
| S85.592A | Other specified injury of popliteal vein, left leg, initial encounter                               | Diagnosis     | ICD-10-CM |
| S85.592D | Other specified injury of popliteal vein, left leg, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S85.592S | Other specified injury of popliteal vein, left leg, sequela   | Diagnosis     | ICD-10-CM |
| S85.599  | Other specified injury of popliteal vein, unspecified leg   | Diagnosis     | ICD-10-CM |
| S85.599A | Other specified injury of popliteal vein, unspecified leg, initial encounter                        | Diagnosis     | ICD-10-CM |
| S85.599D | Other specified injury of popliteal vein, unspecified leg, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S85.599S | Other specified injury of popliteal vein, unspecified leg, sequela                                  | Diagnosis     | ICD-10-CM |
| S85.8    | Injury of other blood vessels at lower leg level  | Diagnosis     | ICD-10-CM |
| S85.80   | Unspecified injury of other blood vessels at lower leg level  | Diagnosis     | ICD-10-CM |
| S85.801  | Unspecified injury of other blood vessels at lower leg level, right leg                             | Diagnosis     | ICD-10-CM |
| S85.801A | Unspecified injury of other blood vessels at lower leg level, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S85.801D | Unspecified injury of other blood vessels at lower leg level, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S85.801S | Unspecified injury of other blood vessels at lower leg level, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S85.802  | Unspecified injury of other blood vessels at lower leg level, left leg                              | Diagnosis     | ICD-10-CM |
| S85.802A | Unspecified injury of other blood vessels at lower leg level, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S85.802D | Unspecified injury of other blood vessels at lower leg level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S85.802S | Unspecified injury of other blood vessels at lower leg level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S85.809  | Unspecified injury of other blood vessels at lower leg level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S85.809A | Unspecified injury of other blood vessels at lower leg level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S85.809D | Unspecified injury of other blood vessels at lower leg level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S85.809S | Unspecified injury of other blood vessels at lower leg level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S85.81   | Laceration of other blood vessels at lower leg level  | Diagnosis     | ICD-10-CM |
| S85.811  | Laceration of other blood vessels at lower leg level, right leg                                     | Diagnosis     | ICD-10-CM |
| S85.811A | Laceration of other blood vessels at lower leg level, right leg, initial encounter                  | Diagnosis     | ICD-10-CM |
| S85.811D | Laceration of other blood vessels at lower leg level, right leg, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S85.811S | Laceration of other blood vessels at lower leg level, right leg, sequela                            | Diagnosis     | ICD-10-CM |
| S85.812  | Laceration of other blood vessels at lower leg level, left leg                                      | Diagnosis     | ICD-10-CM |
| S85.812A | Laceration of other blood vessels at lower leg level, left leg, initial encounter                   | Diagnosis     | ICD-10-CM |
| S85.812D | Laceration of other blood vessels at lower leg level, left leg, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S85.812S | Laceration of other blood vessels at lower leg level, left leg, sequela                             | Diagnosis     | ICD-10-CM |
| S85.819  | Laceration of other blood vessels at lower leg level, unspecified leg                               | Diagnosis     | ICD-10-CM |
| S85.819A | Laceration of other blood vessels at lower leg level, unspecified leg, initial encounter            | Diagnosis     | ICD-10-CM |
| S85.819D | Laceration of other blood vessels at lower leg level, unspecified leg, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S85.819S | Laceration of other blood vessels at lower leg level, unspecified leg, sequela                      | Diagnosis     | ICD-10-CM |
| S85.89   | Other specified injury of other blood vessels at lower leg level                                    | Diagnosis     | ICD-10-CM |
| S85.891  | Other specified injury of other blood vessels at lower leg level, right leg                         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S85.891A | Other specified injury of other blood vessels at lower leg level, right leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S85.891D | Other specified injury of other blood vessels at lower leg level, right leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S85.891S | Other specified injury of other blood vessels at lower leg level, right leg, sequela                     | Diagnosis     | ICD-10-CM |
| S85.892  | Other specified injury of other blood vessels at lower leg level, left leg                               | Diagnosis     | ICD-10-CM |
| S85.892A | Other specified injury of other blood vessels at lower leg level, left leg, initial encounter            | Diagnosis     | ICD-10-CM |
| S85.892D | Other specified injury of other blood vessels at lower leg level, left leg, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S85.892S | Other specified injury of other blood vessels at lower leg level, left leg, sequela                      | Diagnosis     | ICD-10-CM |
| S85.899  | Other specified injury of other blood vessels at lower leg level, unspecified leg                        | Diagnosis     | ICD-10-CM |
| S85.899A | Other specified injury of other blood vessels at lower leg level, unspecified leg, initial encounter     | Diagnosis     | ICD-10-CM |
| S85.899D | Other specified injury of other blood vessels at lower leg level, unspecified leg, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S85.899S | Other specified injury of other blood vessels at lower leg level, unspecified leg, sequela               | Diagnosis     | ICD-10-CM |
| S85.9    | Injury of unspecified blood vessel at lower leg level  | Diagnosis     | ICD-10-CM |
| S85.90   | Unspecified injury of unspecified blood vessel at lower leg level  | Diagnosis     | ICD-10-CM |
| S85.901  | Unspecified injury of unspecified blood vessel at lower leg level, right leg                             | Diagnosis     | ICD-10-CM |
| S85.901A | Unspecified injury of unspecified blood vessel at lower leg level, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S85.901D | Unspecified injury of unspecified blood vessel at lower leg level, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S85.901S | Unspecified injury of unspecified blood vessel at lower leg level, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S85.902  | Unspecified injury of unspecified blood vessel at lower leg level, left leg                              | Diagnosis     | ICD-10-CM |
| S85.902A | Unspecified injury of unspecified blood vessel at lower leg level, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S85.902D | Unspecified injury of unspecified blood vessel at lower leg level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S85.902S | Unspecified injury of unspecified blood vessel at lower leg level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S85.909  | Unspecified injury of unspecified blood vessel at lower leg level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S85.909A | Unspecified injury of unspecified blood vessel at lower leg level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S85.909D | Unspecified injury of unspecified blood vessel at lower leg level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S85.909S | Unspecified injury of unspecified blood vessel at lower leg level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S85.91   | Laceration of unspecified blood vessel at lower leg level  | Diagnosis     | ICD-10-CM |
| S85.911  | Laceration of unspecified blood vessel at lower leg level, right leg                                     | Diagnosis     | ICD-10-CM |
| S85.911A | Laceration of unspecified blood vessel at lower leg level, right leg, initial encounter                  | Diagnosis     | ICD-10-CM |
| S85.911D | Laceration of unspecified blood vessel at lower leg level, right leg, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S85.911S | Laceration of unspecified blood vessel at lower leg level, right leg, sequela                            | Diagnosis     | ICD-10-CM |
| S85.912  | Laceration of unspecified blood vessel at lower leg level, left leg                                      | Diagnosis     | ICD-10-CM |
| S85.912A | Laceration of unspecified blood vessel at lower leg level, left leg, initial encounter                   | Diagnosis     | ICD-10-CM |
| S85.912D | Laceration of unspecified blood vessel at lower leg level, left leg, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S85.912S | Laceration of unspecified blood vessel at lower leg level, left leg, sequela                             | Diagnosis     | ICD-10-CM |
| S85.919  | Laceration of unspecified blood vessel at lower leg level, unspecified leg                               | Diagnosis     | ICD-10-CM |
| S85.919A | Laceration of unspecified blood vessel at lower leg level, unspecified leg, initial encounter            | Diagnosis     | ICD-10-CM |
| S85.919D | Laceration of unspecified blood vessel at lower leg level, unspecified leg, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S85.919S | Laceration of unspecified blood vessel at lower leg level, unspecified leg, sequela                      | Diagnosis     | ICD-10-CM |
| S85.99   | Other specified injury of unspecified blood vessel at lower leg level                                    | Diagnosis     | ICD-10-CM |
| S85.991  | Other specified injury of unspecified blood vessel at lower leg level, right leg                         | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S85.991A | Other specified injury of unspecified blood vessel at lower leg level, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S85.991D | Other specified injury of unspecified blood vessel at lower leg level, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S85.991S | Other specified injury of unspecified blood vessel at lower leg level, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S85.992  | Other specified injury of unspecified blood vessel at lower leg level, left leg                              | Diagnosis     | ICD-10-CM |
| S85.992A | Other specified injury of unspecified blood vessel at lower leg level, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S85.992D | Other specified injury of unspecified blood vessel at lower leg level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S85.992S | Other specified injury of unspecified blood vessel at lower leg level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S85.999  | Other specified injury of unspecified blood vessel at lower leg level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S85.999A | Other specified injury of unspecified blood vessel at lower leg level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S85.999D | Other specified injury of unspecified blood vessel at lower leg level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S85.999S | Other specified injury of unspecified blood vessel at lower leg level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S86      | Injury of muscle, fascia and tendon at lower leg level   | Diagnosis     | ICD-10-CM |
| S86.0    | Injury of Achilles tendon  | Diagnosis     | ICD-10-CM |
| S86.00   | Unspecified injury of Achilles tendon  | Diagnosis     | ICD-10-CM |
| S86.001  | Unspecified injury of right Achilles tendon  | Diagnosis     | ICD-10-CM |
| S86.001A | Unspecified injury of right Achilles tendon, initial encounter   | Diagnosis     | ICD-10-CM |
| S86.001D | Unspecified injury of right Achilles tendon, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S86.001S | Unspecified injury of right Achilles tendon, sequela   | Diagnosis     | ICD-10-CM |
| S86.002  | Unspecified injury of left Achilles tendon   | Diagnosis     | ICD-10-CM |
| S86.002A | Unspecified injury of left Achilles tendon, initial encounter  | Diagnosis     | ICD-10-CM |
| S86.002D | Unspecified injury of left Achilles tendon, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S86.002S | Unspecified injury of left Achilles tendon, sequela  | Diagnosis     | ICD-10-CM |
| S86.009  | Unspecified injury of unspecified Achilles tendon  | Diagnosis     | ICD-10-CM |
| S86.009A | Unspecified injury of unspecified Achilles tendon, initial encounter   | Diagnosis     | ICD-10-CM |
| S86.009D | Unspecified injury of unspecified Achilles tendon, subsequent encounter                                      | Diagnosis     | ICD-10-CM |
| S86.009S | Unspecified injury of unspecified Achilles tendon, sequela   | Diagnosis     | ICD-10-CM |
| S86.01   | Strain of Achilles tendon  | Diagnosis     | ICD-10-CM |
| S86.011  | Strain of right Achilles tendon  | Diagnosis     | ICD-10-CM |
| S86.011A | Strain of right Achilles tendon, initial encounter   | Diagnosis     | ICD-10-CM |
| S86.011D | Strain of right Achilles tendon, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S86.011S | Strain of right Achilles tendon, sequela   | Diagnosis     | ICD-10-CM |
| S86.012  | Strain of left Achilles tendon   | Diagnosis     | ICD-10-CM |
| S86.012A | Strain of left Achilles tendon, initial encounter  | Diagnosis     | ICD-10-CM |
| S86.012D | Strain of left Achilles tendon, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S86.012S | Strain of left Achilles tendon, sequela  | Diagnosis     | ICD-10-CM |
| S86.019  | Strain of unspecified Achilles tendon  | Diagnosis     | ICD-10-CM |
| S86.019A | Strain of unspecified Achilles tendon, initial encounter   | Diagnosis     | ICD-10-CM |
| S86.019D | Strain of unspecified Achilles tendon, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S86.019S | Strain of unspecified Achilles tendon, sequela   | Diagnosis     | ICD-10-CM |
| S86.02   | Laceration of Achilles tendon  | Diagnosis     | ICD-10-CM |
| S86.021  | Laceration of right Achilles tendon  | Diagnosis     | ICD-10-CM |
| S86.021A | Laceration of right Achilles tendon, initial encounter   | Diagnosis     | ICD-10-CM |
| S86.021D | Laceration of right Achilles tendon, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S86.021S | Laceration of right Achilles tendon, sequela   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S86.022  | Laceration of left Achilles tendon  | Diagnosis     | ICD-10-CM |
| S86.022A | Laceration of left Achilles tendon, initial encounter   | Diagnosis     | ICD-10-CM |
| S86.022D | Laceration of left Achilles tendon, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S86.022S | Laceration of left Achilles tendon, sequela   | Diagnosis     | ICD-10-CM |
| S86.029  | Laceration of unspecified Achilles tendon   | Diagnosis     | ICD-10-CM |
| S86.029A | Laceration of unspecified Achilles tendon, initial encounter  | Diagnosis     | ICD-10-CM |
| S86.029D | Laceration of unspecified Achilles tendon, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S86.029S | Laceration of unspecified Achilles tendon, sequela  | Diagnosis     | ICD-10-CM |
| S86.09   | Other specified injury of Achilles tendon   | Diagnosis     | ICD-10-CM |
| S86.091  | Other specified injury of right Achilles tendon   | Diagnosis     | ICD-10-CM |
| S86.091A | Other specified injury of right Achilles tendon, initial encounter  | Diagnosis     | ICD-10-CM |
| S86.091D | Other specified injury of right Achilles tendon, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S86.091S | Other specified injury of right Achilles tendon, sequela  | Diagnosis     | ICD-10-CM |
| S86.092  | Other specified injury of left Achilles tendon  | Diagnosis     | ICD-10-CM |
| S86.092A | Other specified injury of left Achilles tendon, initial encounter   | Diagnosis     | ICD-10-CM |
| S86.092D | Other specified injury of left Achilles tendon, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S86.092S | Other specified injury of left Achilles tendon, sequela   | Diagnosis     | ICD-10-CM |
| S86.099  | Other specified injury of unspecified Achilles tendon   | Diagnosis     | ICD-10-CM |
| S86.099A | Other specified injury of unspecified Achilles tendon, initial encounter  | Diagnosis     | ICD-10-CM |
| S86.099D | Other specified injury of unspecified Achilles tendon, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S86.099S | Other specified injury of unspecified Achilles tendon, sequela  | Diagnosis     | ICD-10-CM |
| S86.1    | Injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level  | Diagnosis     | ICD-10-CM |
| S86.10   | Unspecified injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level  | Diagnosis     | ICD-10-CM |
| S86.101  | Unspecified injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, right leg                             | Diagnosis     | ICD-10-CM |
| S86.101A | Unspecified injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S86.101D | Unspecified injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S86.101S | Unspecified injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S86.102  | Unspecified injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, left leg                              | Diagnosis     | ICD-10-CM |
| S86.102A | Unspecified injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S86.102D | Unspecified injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S86.102S | Unspecified injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S86.109  | Unspecified injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S86.109A | Unspecified injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S86.109D | Unspecified injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S86.109S | Unspecified injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S86.11   | Strain of other muscle(s) and tendon(s) of posterior muscle group at lower leg level  | Diagnosis     | ICD-10-CM |
| S86.111  | Strain of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, right leg   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S86.111A | Strain of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, right leg, initial encounter              | Diagnosis     | ICD-10-CM |
| S86.111D | Strain of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, right leg, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S86.111S | Strain of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, right leg, sequela                        | Diagnosis     | ICD-10-CM |
| S86.112  | Strain of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, left leg                                  | Diagnosis     | ICD-10-CM |
| S86.112A | Strain of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, left leg, initial encounter               | Diagnosis     | ICD-10-CM |
| S86.112D | Strain of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, left leg, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S86.112S | Strain of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, left leg, sequela                         | Diagnosis     | ICD-10-CM |
| S86.119  | Strain of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, unspecified leg                           | Diagnosis     | ICD-10-CM |
| S86.119A | Strain of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, unspecified leg, initial encounter        | Diagnosis     | ICD-10-CM |
| S86.119D | Strain of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, unspecified leg, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S86.119S | Strain of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, unspecified leg, sequela                  | Diagnosis     | ICD-10-CM |
| S86.12   | Laceration of other muscle(s) and tendon(s) of posterior muscle group at lower leg level  | Diagnosis     | ICD-10-CM |
| S86.121  | Laceration of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, right leg                             | Diagnosis     | ICD-10-CM |
| S86.121A | Laceration of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S86.121D | Laceration of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S86.121S | Laceration of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S86.122  | Laceration of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, left leg                              | Diagnosis     | ICD-10-CM |
| S86.122A | Laceration of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S86.122D | Laceration of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S86.122S | Laceration of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S86.129  | Laceration of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S86.129A | Laceration of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S86.129D | Laceration of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S86.129S | Laceration of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S86.19   | Other injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level                                      | Diagnosis     | ICD-10-CM |
| S86.191  | Other injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, right leg                           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S86.191A | Other injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S86.191D | Other injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S86.191S | Other injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S86.192  | Other injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, left leg                              | Diagnosis     | ICD-10-CM |
| S86.192A | Other injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S86.192D | Other injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S86.192S | Other injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S86.199  | Other injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S86.199A | Other injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S86.199D | Other injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S86.199S | Other injury of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S86.2    | Injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level   | Diagnosis     | ICD-10-CM |
| S86.20   | Unspecified injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level   | Diagnosis     | ICD-10-CM |
| S86.201  | Unspecified injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level, right leg                              | Diagnosis     | ICD-10-CM |
| S86.201A | Unspecified injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level, right leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S86.201D | Unspecified injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level, right leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S86.201S | Unspecified injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level, right leg, sequela                     | Diagnosis     | ICD-10-CM |
| S86.202  | Unspecified injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level, left leg                               | Diagnosis     | ICD-10-CM |
| S86.202A | Unspecified injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level, left leg, initial encounter            | Diagnosis     | ICD-10-CM |
| S86.202D | Unspecified injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level, left leg, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S86.202S | Unspecified injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level, left leg, sequela                      | Diagnosis     | ICD-10-CM |
| S86.209  | Unspecified injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level, unspecified leg                        | Diagnosis     | ICD-10-CM |
| S86.209A | Unspecified injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level, unspecified leg, initial encounter     | Diagnosis     | ICD-10-CM |
| S86.209D | Unspecified injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level, unspecified leg, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S86.209S | Unspecified injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level, unspecified leg, sequela               | Diagnosis     | ICD-10-CM |
| S86.21   | Strain of muscle(s) and tendon(s) of anterior muscle group at lower leg level   | Diagnosis     | ICD-10-CM |
| S86.211  | Strain of muscle(s) and tendon(s) of anterior muscle group at lower leg level, right leg  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S86.211A | Strain of muscle(s) and tendon(s) of anterior muscle group at lower leg level, right leg, initial encounter              | Diagnosis     | ICD-10-CM |
| S86.211D | Strain of muscle(s) and tendon(s) of anterior muscle group at lower leg level, right leg, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S86.211S | Strain of muscle(s) and tendon(s) of anterior muscle group at lower leg level, right leg, sequela                        | Diagnosis     | ICD-10-CM |
| S86.212  | Strain of muscle(s) and tendon(s) of anterior muscle group at lower leg level, left leg                                  | Diagnosis     | ICD-10-CM |
| S86.212A | Strain of muscle(s) and tendon(s) of anterior muscle group at lower leg level, left leg, initial encounter               | Diagnosis     | ICD-10-CM |
| S86.212D | Strain of muscle(s) and tendon(s) of anterior muscle group at lower leg level, left leg, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S86.212S | Strain of muscle(s) and tendon(s) of anterior muscle group at lower leg level, left leg, sequela                         | Diagnosis     | ICD-10-CM |
| S86.219  | Strain of muscle(s) and tendon(s) of anterior muscle group at lower leg level, unspecified leg                           | Diagnosis     | ICD-10-CM |
| S86.219A | Strain of muscle(s) and tendon(s) of anterior muscle group at lower leg level, unspecified leg, initial encounter        | Diagnosis     | ICD-10-CM |
| S86.219D | Strain of muscle(s) and tendon(s) of anterior muscle group at lower leg level, unspecified leg, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S86.219S | Strain of muscle(s) and tendon(s) of anterior muscle group at lower leg level, unspecified leg, sequela                  | Diagnosis     | ICD-10-CM |
| S86.22   | Laceration of muscle(s) and tendon(s) of anterior muscle group at lower leg level  | Diagnosis     | ICD-10-CM |
| S86.221  | Laceration of muscle(s) and tendon(s) of anterior muscle group at lower leg level, right leg                             | Diagnosis     | ICD-10-CM |
| S86.221A | Laceration of muscle(s) and tendon(s) of anterior muscle group at lower leg level, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S86.221D | Laceration of muscle(s) and tendon(s) of anterior muscle group at lower leg level, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S86.221S | Laceration of muscle(s) and tendon(s) of anterior muscle group at lower leg level, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S86.222  | Laceration of muscle(s) and tendon(s) of anterior muscle group at lower leg level, left leg                              | Diagnosis     | ICD-10-CM |
| S86.222A | Laceration of muscle(s) and tendon(s) of anterior muscle group at lower leg level, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S86.222D | Laceration of muscle(s) and tendon(s) of anterior muscle group at lower leg level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S86.222S | Laceration of muscle(s) and tendon(s) of anterior muscle group at lower leg level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S86.229  | Laceration of muscle(s) and tendon(s) of anterior muscle group at lower leg level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S86.229A | Laceration of muscle(s) and tendon(s) of anterior muscle group at lower leg level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S86.229D | Laceration of muscle(s) and tendon(s) of anterior muscle group at lower leg level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S86.229S | Laceration of muscle(s) and tendon(s) of anterior muscle group at lower leg level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S86.29   | Other injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level                                      | Diagnosis     | ICD-10-CM |
| S86.291  | Other injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level, right leg                           | Diagnosis     | ICD-10-CM |
| S86.291A | Other injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level, right leg, initial encounter        | Diagnosis     | ICD-10-CM |
| S86.291D | Other injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level, right leg, subsequent encounter     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S86.291S | Other injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level, right leg, sequela                          | Diagnosis     | ICD-10-CM |
| S86.292  | Other injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level, left leg                                    | Diagnosis     | ICD-10-CM |
| S86.292A | Other injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level, left leg, initial encounter                 | Diagnosis     | ICD-10-CM |
| S86.292D | Other injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level, left leg, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S86.292S | Other injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level, left leg, sequela                           | Diagnosis     | ICD-10-CM |
| S86.299  | Other injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level, unspecified leg                             | Diagnosis     | ICD-10-CM |
| S86.299A | Other injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level, unspecified leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S86.299D | Other injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level, unspecified leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S86.299S | Other injury of muscle(s) and tendon(s) of anterior muscle group at lower leg level, unspecified leg, sequela                    | Diagnosis     | ICD-10-CM |
| S86.3    | Injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level  | Diagnosis     | ICD-10-CM |
| S86.30   | Unspecified injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level  | Diagnosis     | ICD-10-CM |
| S86.301  | Unspecified injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, right leg                             | Diagnosis     | ICD-10-CM |
| S86.301A | Unspecified injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S86.301D | Unspecified injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S86.301S | Unspecified injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S86.302  | Unspecified injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, left leg                              | Diagnosis     | ICD-10-CM |
| S86.302A | Unspecified injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S86.302D | Unspecified injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S86.302S | Unspecified injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S86.309  | Unspecified injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S86.309A | Unspecified injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S86.309D | Unspecified injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S86.309S | Unspecified injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S86.31   | Strain of muscle(s) and tendon(s) of peroneal muscle group at lower leg level  | Diagnosis     | ICD-10-CM |
| S86.311  | Strain of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, right leg   | Diagnosis     | ICD-10-CM |
| S86.311A | Strain of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, right leg, initial encounter                      | Diagnosis     | ICD-10-CM |
| S86.311D | Strain of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, right leg, subsequent encounter                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S86.311S | Strain of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, right leg, sequela                        | Diagnosis     | ICD-10-CM |
| S86.312  | Strain of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, left leg                                  | Diagnosis     | ICD-10-CM |
| S86.312A | Strain of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, left leg, initial encounter               | Diagnosis     | ICD-10-CM |
| S86.312D | Strain of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, left leg, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S86.312S | Strain of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, left leg, sequela                         | Diagnosis     | ICD-10-CM |
| S86.319  | Strain of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, unspecified leg                           | Diagnosis     | ICD-10-CM |
| S86.319A | Strain of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, unspecified leg, initial encounter        | Diagnosis     | ICD-10-CM |
| S86.319D | Strain of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, unspecified leg, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S86.319S | Strain of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, unspecified leg, sequela                  | Diagnosis     | ICD-10-CM |
| S86.32   | Laceration of muscle(s) and tendon(s) of peroneal muscle group at lower leg level  | Diagnosis     | ICD-10-CM |
| S86.321  | Laceration of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, right leg                             | Diagnosis     | ICD-10-CM |
| S86.321A | Laceration of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S86.321D | Laceration of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S86.321S | Laceration of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S86.322  | Laceration of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, left leg                              | Diagnosis     | ICD-10-CM |
| S86.322A | Laceration of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S86.322D | Laceration of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S86.322S | Laceration of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S86.329  | Laceration of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S86.329A | Laceration of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S86.329D | Laceration of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S86.329S | Laceration of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S86.39   | Other injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level                                      | Diagnosis     | ICD-10-CM |
| S86.391  | Other injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, right leg                           | Diagnosis     | ICD-10-CM |
| S86.391A | Other injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, right leg, initial encounter        | Diagnosis     | ICD-10-CM |
| S86.391D | Other injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, right leg, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S86.391S | Other injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, right leg, sequela                  | Diagnosis     | ICD-10-CM |
| S86.392  | Other injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, left leg                            | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S86.392A | Other injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S86.392D | Other injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S86.392S | Other injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S86.399  | Other injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S86.399A | Other injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S86.399D | Other injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S86.399S | Other injury of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S86.8    | Injury of other muscles and tendons at lower leg level   | Diagnosis     | ICD-10-CM |
| S86.80   | Unspecified injury of other muscles and tendons at lower leg level   | Diagnosis     | ICD-10-CM |
| S86.801  | Unspecified injury of other muscle(s) and tendon(s) at lower leg level, right leg  | Diagnosis     | ICD-10-CM |
| S86.801A | Unspecified injury of other muscle(s) and tendon(s) at lower leg level, right leg, initial encounter                       | Diagnosis     | ICD-10-CM |
| S86.801D | Unspecified injury of other muscle(s) and tendon(s) at lower leg level, right leg, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S86.801S | Unspecified injury of other muscle(s) and tendon(s) at lower leg level, right leg, sequela                                 | Diagnosis     | ICD-10-CM |
| S86.802  | Unspecified injury of other muscle(s) and tendon(s) at lower leg level, left leg   | Diagnosis     | ICD-10-CM |
| S86.802A | Unspecified injury of other muscle(s) and tendon(s) at lower leg level, left leg, initial encounter                        | Diagnosis     | ICD-10-CM |
| S86.802D | Unspecified injury of other muscle(s) and tendon(s) at lower leg level, left leg, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S86.802S | Unspecified injury of other muscle(s) and tendon(s) at lower leg level, left leg, sequela                                  | Diagnosis     | ICD-10-CM |
| S86.809  | Unspecified injury of other muscle(s) and tendon(s) at lower leg level, unspecified leg                                    | Diagnosis     | ICD-10-CM |
| S86.809A | Unspecified injury of other muscle(s) and tendon(s) at lower leg level, unspecified leg, initial encounter                 | Diagnosis     | ICD-10-CM |
| S86.809D | Unspecified injury of other muscle(s) and tendon(s) at lower leg level, unspecified leg, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S86.809S | Unspecified injury of other muscle(s) and tendon(s) at lower leg level, unspecified leg, sequela                           | Diagnosis     | ICD-10-CM |
| S86.81   | Strain of other muscles and tendons at lower leg level   | Diagnosis     | ICD-10-CM |
| S86.811  | Strain of other muscle(s) and tendon(s) at lower leg level, right leg  | Diagnosis     | ICD-10-CM |
| S86.811A | Strain of other muscle(s) and tendon(s) at lower leg level, right leg, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S86.811D | Strain of other muscle(s) and tendon(s) at lower leg level, right leg, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S86.811S | Strain of other muscle(s) and tendon(s) at lower leg level, right leg, sequela   | Diagnosis     | ICD-10-CM |
| S86.812  | Strain of other muscle(s) and tendon(s) at lower leg level, left leg   | Diagnosis     | ICD-10-CM |
| S86.812A | Strain of other muscle(s) and tendon(s) at lower leg level, left leg, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S86.812D | Strain of other muscle(s) and tendon(s) at lower leg level, left leg, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S86.812S | Strain of other muscle(s) and tendon(s) at lower leg level, left leg, sequela  | Diagnosis     | ICD-10-CM |
| S86.819  | Strain of other muscle(s) and tendon(s) at lower leg level, unspecified leg  | Diagnosis     | ICD-10-CM |
| S86.819A | Strain of other muscle(s) and tendon(s) at lower leg level, unspecified leg, initial encounter                             | Diagnosis     | ICD-10-CM |
| S86.819D | Strain of other muscle(s) and tendon(s) at lower leg level, unspecified leg, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S86.819S | Strain of other muscle(s) and tendon(s) at lower leg level, unspecified leg, sequela                                       | Diagnosis     | ICD-10-CM |
| S86.82   | Laceration of other muscles and tendons at lower leg level   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S86.821  | Laceration of other muscle(s) and tendon(s) at lower leg level, right leg  | Diagnosis     | ICD-10-CM |
| S86.821A | Laceration of other muscle(s) and tendon(s) at lower leg level, right leg, initial encounter                     | Diagnosis     | ICD-10-CM |
| S86.821D | Laceration of other muscle(s) and tendon(s) at lower leg level, right leg, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S86.821S | Laceration of other muscle(s) and tendon(s) at lower leg level, right leg, sequela                               | Diagnosis     | ICD-10-CM |
| S86.822  | Laceration of other muscle(s) and tendon(s) at lower leg level, left leg   | Diagnosis     | ICD-10-CM |
| S86.822A | Laceration of other muscle(s) and tendon(s) at lower leg level, left leg, initial encounter                      | Diagnosis     | ICD-10-CM |
| S86.822D | Laceration of other muscle(s) and tendon(s) at lower leg level, left leg, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S86.822S | Laceration of other muscle(s) and tendon(s) at lower leg level, left leg, sequela                                | Diagnosis     | ICD-10-CM |
| S86.829  | Laceration of other muscle(s) and tendon(s) at lower leg level, unspecified leg                                  | Diagnosis     | ICD-10-CM |
| S86.829A | Laceration of other muscle(s) and tendon(s) at lower leg level, unspecified leg, initial encounter               | Diagnosis     | ICD-10-CM |
| S86.829D | Laceration of other muscle(s) and tendon(s) at lower leg level, unspecified leg, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S86.829S | Laceration of other muscle(s) and tendon(s) at lower leg level, unspecified leg, sequela                         | Diagnosis     | ICD-10-CM |
| S86.89   | Other injury of other muscles and tendons at lower leg level   | Diagnosis     | ICD-10-CM |
| S86.891  | Other injury of other muscle(s) and tendon(s) at lower leg level, right leg                                      | Diagnosis     | ICD-10-CM |
| S86.891A | Other injury of other muscle(s) and tendon(s) at lower leg level, right leg, initial encounter                   | Diagnosis     | ICD-10-CM |
| S86.891D | Other injury of other muscle(s) and tendon(s) at lower leg level, right leg, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S86.891S | Other injury of other muscle(s) and tendon(s) at lower leg level, right leg, sequela                             | Diagnosis     | ICD-10-CM |
| S86.892  | Other injury of other muscle(s) and tendon(s) at lower leg level, left leg                                       | Diagnosis     | ICD-10-CM |
| S86.892A | Other injury of other muscle(s) and tendon(s) at lower leg level, left leg, initial encounter                    | Diagnosis     | ICD-10-CM |
| S86.892D | Other injury of other muscle(s) and tendon(s) at lower leg level, left leg, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S86.892S | Other injury of other muscle(s) and tendon(s) at lower leg level, left leg, sequela                              | Diagnosis     | ICD-10-CM |
| S86.899  | Other injury of other muscle(s) and tendon(s) at lower leg level, unspecified leg                                | Diagnosis     | ICD-10-CM |
| S86.899A | Other injury of other muscle(s) and tendon(s) at lower leg level, unspecified leg, initial encounter             | Diagnosis     | ICD-10-CM |
| S86.899D | Other injury of other muscle(s) and tendon(s) at lower leg level, unspecified leg, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S86.899S | Other injury of other muscle(s) and tendon(s) at lower leg level, unspecified leg, sequela                       | Diagnosis     | ICD-10-CM |
| S86.9    | Injury of unspecified muscle and tendon at lower leg level   | Diagnosis     | ICD-10-CM |
| S86.90   | Unspecified injury of unspecified muscle and tendon at lower leg level   | Diagnosis     | ICD-10-CM |
| S86.901  | Unspecified injury of unspecified muscle(s) and tendon(s) at lower leg level, right leg                          | Diagnosis     | ICD-10-CM |
| S86.901A | Unspecified injury of unspecified muscle(s) and tendon(s) at lower leg level, right leg, initial encounter       | Diagnosis     | ICD-10-CM |
| S86.901D | Unspecified injury of unspecified muscle(s) and tendon(s) at lower leg level, right leg, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S86.901S | Unspecified injury of unspecified muscle(s) and tendon(s) at lower leg level, right leg, sequela                 | Diagnosis     | ICD-10-CM |
| S86.902  | Unspecified injury of unspecified muscle(s) and tendon(s) at lower leg level, left leg                           | Diagnosis     | ICD-10-CM |
| S86.902A | Unspecified injury of unspecified muscle(s) and tendon(s) at lower leg level, left leg, initial encounter        | Diagnosis     | ICD-10-CM |
| S86.902D | Unspecified injury of unspecified muscle(s) and tendon(s) at lower leg level, left leg, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S86.902S | Unspecified injury of unspecified muscle(s) and tendon(s) at lower leg level, left leg, sequela                  | Diagnosis     | ICD-10-CM |
| S86.909  | Unspecified injury of unspecified muscle(s) and tendon(s) at lower leg level, unspecified leg                    | Diagnosis     | ICD-10-CM |
| S86.909A | Unspecified injury of unspecified muscle(s) and tendon(s) at lower leg level, unspecified leg, initial encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S86.909D | Unspecified injury of unspecified muscle(s) and tendon(s) at lower leg level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S86.909S | Unspecified injury of unspecified muscle(s) and tendon(s) at lower leg level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S86.91   | Strain of unspecified muscle and tendon at lower leg level  | Diagnosis     | ICD-10-CM |
| S86.911  | Strain of unspecified muscle(s) and tendon(s) at lower leg level, right leg   | Diagnosis     | ICD-10-CM |
| S86.911A | Strain of unspecified muscle(s) and tendon(s) at lower leg level, right leg, initial encounter                      | Diagnosis     | ICD-10-CM |
| S86.911D | Strain of unspecified muscle(s) and tendon(s) at lower leg level, right leg, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S86.911S | Strain of unspecified muscle(s) and tendon(s) at lower leg level, right leg, sequela                                | Diagnosis     | ICD-10-CM |
| S86.912  | Strain of unspecified muscle(s) and tendon(s) at lower leg level, left leg  | Diagnosis     | ICD-10-CM |
| S86.912A | Strain of unspecified muscle(s) and tendon(s) at lower leg level, left leg, initial encounter                       | Diagnosis     | ICD-10-CM |
| S86.912D | Strain of unspecified muscle(s) and tendon(s) at lower leg level, left leg, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S86.912S | Strain of unspecified muscle(s) and tendon(s) at lower leg level, left leg, sequela                                 | Diagnosis     | ICD-10-CM |
| S86.919  | Strain of unspecified muscle(s) and tendon(s) at lower leg level, unspecified leg                                   | Diagnosis     | ICD-10-CM |
| S86.919A | Strain of unspecified muscle(s) and tendon(s) at lower leg level, unspecified leg, initial encounter                | Diagnosis     | ICD-10-CM |
| S86.919D | Strain of unspecified muscle(s) and tendon(s) at lower leg level, unspecified leg, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S86.919S | Strain of unspecified muscle(s) and tendon(s) at lower leg level, unspecified leg, sequela                          | Diagnosis     | ICD-10-CM |
| S86.92   | Laceration of unspecified muscle and tendon at lower leg level  | Diagnosis     | ICD-10-CM |
| S86.921  | Laceration of unspecified muscle(s) and tendon(s) at lower leg level, right leg                                     | Diagnosis     | ICD-10-CM |
| S86.921A | Laceration of unspecified muscle(s) and tendon(s) at lower leg level, right leg, initial encounter                  | Diagnosis     | ICD-10-CM |
| S86.921D | Laceration of unspecified muscle(s) and tendon(s) at lower leg level, right leg, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S86.921S | Laceration of unspecified muscle(s) and tendon(s) at lower leg level, right leg, sequela                            | Diagnosis     | ICD-10-CM |
| S86.922  | Laceration of unspecified muscle(s) and tendon(s) at lower leg level, left leg                                      | Diagnosis     | ICD-10-CM |
| S86.922A | Laceration of unspecified muscle(s) and tendon(s) at lower leg level, left leg, initial encounter                   | Diagnosis     | ICD-10-CM |
| S86.922D | Laceration of unspecified muscle(s) and tendon(s) at lower leg level, left leg, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S86.922S | Laceration of unspecified muscle(s) and tendon(s) at lower leg level, left leg, sequela                             | Diagnosis     | ICD-10-CM |
| S86.929  | Laceration of unspecified muscle(s) and tendon(s) at lower leg level, unspecified leg                               | Diagnosis     | ICD-10-CM |
| S86.929A | Laceration of unspecified muscle(s) and tendon(s) at lower leg level, unspecified leg, initial encounter            | Diagnosis     | ICD-10-CM |
| S86.929D | Laceration of unspecified muscle(s) and tendon(s) at lower leg level, unspecified leg, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S86.929S | Laceration of unspecified muscle(s) and tendon(s) at lower leg level, unspecified leg, sequela                      | Diagnosis     | ICD-10-CM |
| S86.99   | Other injury of unspecified muscle and tendon at lower leg level  | Diagnosis     | ICD-10-CM |
| S86.991  | Other injury of unspecified muscle(s) and tendon(s) at lower leg level, right leg                                   | Diagnosis     | ICD-10-CM |
| S86.991A | Other injury of unspecified muscle(s) and tendon(s) at lower leg level, right leg, initial encounter                | Diagnosis     | ICD-10-CM |
| S86.991D | Other injury of unspecified muscle(s) and tendon(s) at lower leg level, right leg, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S86.991S | Other injury of unspecified muscle(s) and tendon(s) at lower leg level, right leg, sequela                          | Diagnosis     | ICD-10-CM |
| S86.992  | Other injury of unspecified muscle(s) and tendon(s) at lower leg level, left leg                                    | Diagnosis     | ICD-10-CM |
| S86.992A | Other injury of unspecified muscle(s) and tendon(s) at lower leg level, left leg, initial encounter                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S86.992D | Other injury of unspecified muscle(s) and tendon(s) at lower leg level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S86.992S | Other injury of unspecified muscle(s) and tendon(s) at lower leg level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S86.999  | Other injury of unspecified muscle(s) and tendon(s) at lower leg level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S86.999A | Other injury of unspecified muscle(s) and tendon(s) at lower leg level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S86.999D | Other injury of unspecified muscle(s) and tendon(s) at lower leg level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S86.999S | Other injury of unspecified muscle(s) and tendon(s) at lower leg level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S87      | Crushing injury of lower leg  | Diagnosis     | ICD-10-CM |
| S87.0    | Crushing injury of knee   | Diagnosis     | ICD-10-CM |
| S87.00   | Crushing injury of unspecified knee   | Diagnosis     | ICD-10-CM |
| S87.00XA | Crushing injury of unspecified knee, initial encounter  | Diagnosis     | ICD-10-CM |
| S87.00XD | Crushing injury of unspecified knee, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S87.00XS | Crushing injury of unspecified knee, sequela  | Diagnosis     | ICD-10-CM |
| S87.01   | Crushing injury of right knee   | Diagnosis     | ICD-10-CM |
| S87.01XA | Crushing injury of right knee, initial encounter  | Diagnosis     | ICD-10-CM |
| S87.01XD | Crushing injury of right knee, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S87.01XS | Crushing injury of right knee, sequela  | Diagnosis     | ICD-10-CM |
| S87.02   | Crushing injury of left knee  | Diagnosis     | ICD-10-CM |
| S87.02XA | Crushing injury of left knee, initial encounter   | Diagnosis     | ICD-10-CM |
| S87.02XD | Crushing injury of left knee, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S87.02XS | Crushing injury of left knee, sequela   | Diagnosis     | ICD-10-CM |
| S87.8    | Crushing injury of lower leg  | Diagnosis     | ICD-10-CM |
| S87.80   | Crushing injury of unspecified lower leg  | Diagnosis     | ICD-10-CM |
| S87.80XA | Crushing injury of unspecified lower leg, initial encounter   | Diagnosis     | ICD-10-CM |
| S87.80XD | Crushing injury of unspecified lower leg, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S87.80XS | Crushing injury of unspecified lower leg, sequela   | Diagnosis     | ICD-10-CM |
| S87.81   | Crushing injury of right lower leg  | Diagnosis     | ICD-10-CM |
| S87.81XA | Crushing injury of right lower leg, initial encounter   | Diagnosis     | ICD-10-CM |
| S87.81XD | Crushing injury of right lower leg, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S87.81XS | Crushing injury of right lower leg, sequela   | Diagnosis     | ICD-10-CM |
| S87.82   | Crushing injury of left lower leg   | Diagnosis     | ICD-10-CM |
| S87.82XA | Crushing injury of left lower leg, initial encounter  | Diagnosis     | ICD-10-CM |
| S87.82XD | Crushing injury of left lower leg, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S87.82XS | Crushing injury of left lower leg, sequela  | Diagnosis     | ICD-10-CM |
| S88      | Traumatic amputation of lower leg   | Diagnosis     | ICD-10-CM |
| S88.0    | Traumatic amputation at knee level  | Diagnosis     | ICD-10-CM |
| S88.01   | Complete traumatic amputation at knee level   | Diagnosis     | ICD-10-CM |
| S88.011  | Complete traumatic amputation at knee level, right lower leg  | Diagnosis     | ICD-10-CM |
| S88.011A | Complete traumatic amputation at knee level, right lower leg, initial encounter                               | Diagnosis     | ICD-10-CM |
| S88.011D | Complete traumatic amputation at knee level, right lower leg, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S88.011S | Complete traumatic amputation at knee level, right lower leg, sequela   | Diagnosis     | ICD-10-CM |
| S88.012  | Complete traumatic amputation at knee level, left lower leg   | Diagnosis     | ICD-10-CM |
| S88.012A | Complete traumatic amputation at knee level, left lower leg, initial encounter                                | Diagnosis     | ICD-10-CM |
| S88.012D | Complete traumatic amputation at knee level, left lower leg, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S88.012S | Complete traumatic amputation at knee level, left lower leg, sequela  | Diagnosis     | ICD-10-CM |
| S88.019  | Complete traumatic amputation at knee level, unspecified lower leg  | Diagnosis     | ICD-10-CM |
| S88.019A | Complete traumatic amputation at knee level, unspecified lower leg, initial encounter                         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S88.019D | Complete traumatic amputation at knee level, unspecified lower leg, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S88.019S | Complete traumatic amputation at knee level, unspecified lower leg, sequela                                | Diagnosis     | ICD-10-CM |
| S88.02   | Partial traumatic amputation at knee level   | Diagnosis     | ICD-10-CM |
| S88.021  | Partial traumatic amputation at knee level, right lower leg  | Diagnosis     | ICD-10-CM |
| S88.021A | Partial traumatic amputation at knee level, right lower leg, initial encounter                             | Diagnosis     | ICD-10-CM |
| S88.021D | Partial traumatic amputation at knee level, right lower leg, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S88.021S | Partial traumatic amputation at knee level, right lower leg, sequela                                       | Diagnosis     | ICD-10-CM |
| S88.022  | Partial traumatic amputation at knee level, left lower leg   | Diagnosis     | ICD-10-CM |
| S88.022A | Partial traumatic amputation at knee level, left lower leg, initial encounter                              | Diagnosis     | ICD-10-CM |
| S88.022D | Partial traumatic amputation at knee level, left lower leg, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S88.022S | Partial traumatic amputation at knee level, left lower leg, sequela  | Diagnosis     | ICD-10-CM |
| S88.029  | Partial traumatic amputation at knee level, unspecified lower leg  | Diagnosis     | ICD-10-CM |
| S88.029A | Partial traumatic amputation at knee level, unspecified lower leg, initial encounter                       | Diagnosis     | ICD-10-CM |
| S88.029D | Partial traumatic amputation at knee level, unspecified lower leg, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S88.029S | Partial traumatic amputation at knee level, unspecified lower leg, sequela                                 | Diagnosis     | ICD-10-CM |
| S88.1    | Traumatic amputation at level between knee and ankle   | Diagnosis     | ICD-10-CM |
| S88.11   | Complete traumatic amputation at level between knee and ankle  | Diagnosis     | ICD-10-CM |
| S88.111  | Complete traumatic amputation at level between knee and ankle, right lower leg                             | Diagnosis     | ICD-10-CM |
| S88.111A | Complete traumatic amputation at level between knee and ankle, right lower leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S88.111D | Complete traumatic amputation at level between knee and ankle, right lower leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S88.111S | Complete traumatic amputation at level between knee and ankle, right lower leg, sequela                    | Diagnosis     | ICD-10-CM |
| S88.112  | Complete traumatic amputation at level between knee and ankle, left lower leg                              | Diagnosis     | ICD-10-CM |
| S88.112A | Complete traumatic amputation at level between knee and ankle, left lower leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S88.112D | Complete traumatic amputation at level between knee and ankle, left lower leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S88.112S | Complete traumatic amputation at level between knee and ankle, left lower leg, sequela                     | Diagnosis     | ICD-10-CM |
| S88.119  | Complete traumatic amputation at level between knee and ankle, unspecified lower leg                       | Diagnosis     | ICD-10-CM |
| S88.119A | Complete traumatic amputation at level between knee and ankle, unspecified lower leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S88.119D | Complete traumatic amputation at level between knee and ankle, unspecified lower leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S88.119S | Complete traumatic amputation at level between knee and ankle, unspecified lower leg, sequela              | Diagnosis     | ICD-10-CM |
| S88.12   | Partial traumatic amputation at level between knee and ankle   | Diagnosis     | ICD-10-CM |
| S88.121  | Partial traumatic amputation at level between knee and ankle, right lower leg                              | Diagnosis     | ICD-10-CM |
| S88.121A | Partial traumatic amputation at level between knee and ankle, right lower leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S88.121D | Partial traumatic amputation at level between knee and ankle, right lower leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S88.121S | Partial traumatic amputation at level between knee and ankle, right lower leg, sequela                     | Diagnosis     | ICD-10-CM |
| S88.122  | Partial traumatic amputation at level between knee and ankle, left lower leg                               | Diagnosis     | ICD-10-CM |
| S88.122A | Partial traumatic amputation at level between knee and ankle, left lower leg, initial encounter            | Diagnosis     | ICD-10-CM |
| S88.122D | Partial traumatic amputation at level between knee and ankle, left lower leg, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S88.122S | Partial traumatic amputation at level between knee and ankle, left lower leg, sequela                      | Diagnosis     | ICD-10-CM |
| S88.129  | Partial traumatic amputation at level between knee and ankle, unspecified lower leg                        | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S88.129A | Partial traumatic amputation at level between knee and ankle, unspecified lower leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S88.129D | Partial traumatic amputation at level between knee and ankle, unspecified lower leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S88.129S | Partial traumatic amputation at level between knee and ankle, unspecified lower leg, sequela                     | Diagnosis     | ICD-10-CM |
| S88.9    | Traumatic amputation of lower leg, level unspecified   | Diagnosis     | ICD-10-CM |
| S88.91   | Complete traumatic amputation of lower leg, level unspecified  | Diagnosis     | ICD-10-CM |
| S88.911  | Complete traumatic amputation of right lower leg, level unspecified  | Diagnosis     | ICD-10-CM |
| S88.911A | Complete traumatic amputation of right lower leg, level unspecified, initial encounter                           | Diagnosis     | ICD-10-CM |
| S88.911D | Complete traumatic amputation of right lower leg, level unspecified, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S88.911S | Complete traumatic amputation of right lower leg, level unspecified, sequela                                     | Diagnosis     | ICD-10-CM |
| S88.912  | Complete traumatic amputation of left lower leg, level unspecified   | Diagnosis     | ICD-10-CM |
| S88.912A | Complete traumatic amputation of left lower leg, level unspecified, initial encounter                            | Diagnosis     | ICD-10-CM |
| S88.912D | Complete traumatic amputation of left lower leg, level unspecified, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S88.912S | Complete traumatic amputation of left lower leg, level unspecified, sequela                                      | Diagnosis     | ICD-10-CM |
| S88.919  | Complete traumatic amputation of unspecified lower leg, level unspecified  | Diagnosis     | ICD-10-CM |
| S88.919A | Complete traumatic amputation of unspecified lower leg, level unspecified, initial encounter                     | Diagnosis     | ICD-10-CM |
| S88.919D | Complete traumatic amputation of unspecified lower leg, level unspecified, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S88.919S | Complete traumatic amputation of unspecified lower leg, level unspecified, sequela                               | Diagnosis     | ICD-10-CM |
| S88.92   | Partial traumatic amputation of lower leg, level unspecified   | Diagnosis     | ICD-10-CM |
| S88.921  | Partial traumatic amputation of right lower leg, level unspecified   | Diagnosis     | ICD-10-CM |
| S88.921A | Partial traumatic amputation of right lower leg, level unspecified, initial encounter                            | Diagnosis     | ICD-10-CM |
| S88.921D | Partial traumatic amputation of right lower leg, level unspecified, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S88.921S | Partial traumatic amputation of right lower leg, level unspecified, sequela                                      | Diagnosis     | ICD-10-CM |
| S88.922  | Partial traumatic amputation of left lower leg, level unspecified  | Diagnosis     | ICD-10-CM |
| S88.922A | Partial traumatic amputation of left lower leg, level unspecified, initial encounter                             | Diagnosis     | ICD-10-CM |
| S88.922D | Partial traumatic amputation of left lower leg, level unspecified, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S88.922S | Partial traumatic amputation of left lower leg, level unspecified, sequela                                       | Diagnosis     | ICD-10-CM |
| S88.929  | Partial traumatic amputation of unspecified lower leg, level unspecified   | Diagnosis     | ICD-10-CM |
| S88.929A | Partial traumatic amputation of unspecified lower leg, level unspecified, initial encounter                      | Diagnosis     | ICD-10-CM |
| S88.929D | Partial traumatic amputation of unspecified lower leg, level unspecified, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S88.929S | Partial traumatic amputation of unspecified lower leg, level unspecified, sequela                                | Diagnosis     | ICD-10-CM |
| S89      | Other and unspecified injuries of lower leg  | Diagnosis     | ICD-10-CM |
| S89.0    | Physeal fracture of upper end of tibia   | Diagnosis     | ICD-10-CM |
| S89.00   | Unspecified physeal fracture of upper end of tibia   | Diagnosis     | ICD-10-CM |
| S89.001  | Unspecified physeal fracture of upper end of right tibia   | Diagnosis     | ICD-10-CM |
| S89.001A | Unspecified physeal fracture of upper end of right tibia, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S89.001D | Unspecified physeal fracture of upper end of right tibia, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S89.001G | Unspecified physeal fracture of upper end of right tibia, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S89.001K | Unspecified physeal fracture of upper end of right tibia, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S89.001P | Unspecified physeal fracture of upper end of right tibia, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S89.001S | Unspecified physeal fracture of upper end of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S89.002  | Unspecified physeal fracture of upper end of left tibia  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S89.002A | Unspecified physeal fracture of upper end of left tibia, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S89.002D | Unspecified physeal fracture of upper end of left tibia, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S89.002G | Unspecified physeal fracture of upper end of left tibia, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S89.002K | Unspecified physeal fracture of upper end of left tibia, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S89.002P | Unspecified physeal fracture of upper end of left tibia, subsequent encounter for fracture with malunion                  | Diagnosis     | ICD-10-CM |
| S89.002S | Unspecified physeal fracture of upper end of left tibia, sequela  | Diagnosis     | ICD-10-CM |
| S89.009  | Unspecified physeal fracture of upper end of unspecified tibia  | Diagnosis     | ICD-10-CM |
| S89.009A | Unspecified physeal fracture of upper end of unspecified tibia, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S89.009D | Unspecified physeal fracture of upper end of unspecified tibia, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S89.009G | Unspecified physeal fracture of upper end of unspecified tibia, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S89.009K | Unspecified physeal fracture of upper end of unspecified tibia, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S89.009P | Unspecified physeal fracture of upper end of unspecified tibia, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S89.009S | Unspecified physeal fracture of upper end of unspecified tibia, sequela   | Diagnosis     | ICD-10-CM |
| S89.01   | Salter-Harris Type I physeal fracture of upper end of tibia   | Diagnosis     | ICD-10-CM |
| S89.011  | Salter-Harris Type I physeal fracture of upper end of right tibia   | Diagnosis     | ICD-10-CM |
| S89.011A | Salter-Harris Type I physeal fracture of upper end of right tibia, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S89.011D | Salter-Harris Type I physeal fracture of upper end of right tibia, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S89.011G | Salter-Harris Type I physeal fracture of upper end of right tibia, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S89.011K | Salter-Harris Type I physeal fracture of upper end of right tibia, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S89.011P | Salter-Harris Type I physeal fracture of upper end of right tibia, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S89.011S | Salter-Harris Type I physeal fracture of upper end of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S89.012  | Salter-Harris Type I physeal fracture of upper end of left tibia  | Diagnosis     | ICD-10-CM |
| S89.012A | Salter-Harris Type I physeal fracture of upper end of left tibia, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S89.012D | Salter-Harris Type I physeal fracture of upper end of left tibia, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S89.012G | Salter-Harris Type I physeal fracture of upper end of left tibia, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S89.012K | Salter-Harris Type I physeal fracture of upper end of left tibia, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S89.012P | Salter-Harris Type I physeal fracture of upper end of left tibia, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S89.012S | Salter-Harris Type I physeal fracture of upper end of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S89.019  | Salter-Harris Type I physeal fracture of upper end of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S89.019A | Salter-Harris Type I physeal fracture of upper end of unspecified tibia, initial encounter for closed fracture            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S89.019D | Salter-Harris Type I physeal fracture of upper end of unspecified tibia, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S89.019G | Salter-Harris Type I physeal fracture of upper end of unspecified tibia, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S89.019K | Salter-Harris Type I physeal fracture of upper end of unspecified tibia, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S89.019P | Salter-Harris Type I physeal fracture of upper end of unspecified tibia, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S89.019S | Salter-Harris Type I physeal fracture of upper end of unspecified tibia, sequela   | Diagnosis     | ICD-10-CM |
| S89.02   | Salter-Harris Type II physeal fracture of upper end of tibia   | Diagnosis     | ICD-10-CM |
| S89.021  | Salter-Harris Type II physeal fracture of upper end of right tibia   | Diagnosis     | ICD-10-CM |
| S89.021A | Salter-Harris Type II physeal fracture of upper end of right tibia, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S89.021D | Salter-Harris Type II physeal fracture of upper end of right tibia, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S89.021G | Salter-Harris Type II physeal fracture of upper end of right tibia, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S89.021K | Salter-Harris Type II physeal fracture of upper end of right tibia, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S89.021P | Salter-Harris Type II physeal fracture of upper end of right tibia, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S89.021S | Salter-Harris Type II physeal fracture of upper end of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S89.022  | Salter-Harris Type II physeal fracture of upper end of left tibia  | Diagnosis     | ICD-10-CM |
| S89.022A | Salter-Harris Type II physeal fracture of upper end of left tibia, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S89.022D | Salter-Harris Type II physeal fracture of upper end of left tibia, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S89.022G | Salter-Harris Type II physeal fracture of upper end of left tibia, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S89.022K | Salter-Harris Type II physeal fracture of upper end of left tibia, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S89.022P | Salter-Harris Type II physeal fracture of upper end of left tibia, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S89.022S | Salter-Harris Type II physeal fracture of upper end of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S89.029  | Salter-Harris Type II physeal fracture of upper end of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S89.029A | Salter-Harris Type II physeal fracture of upper end of unspecified tibia, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S89.029D | Salter-Harris Type II physeal fracture of upper end of unspecified tibia, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S89.029G | Salter-Harris Type II physeal fracture of upper end of unspecified tibia, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S89.029K | Salter-Harris Type II physeal fracture of upper end of unspecified tibia, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S89.029P | Salter-Harris Type II physeal fracture of upper end of unspecified tibia, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S89.029S | Salter-Harris Type II physeal fracture of upper end of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S89.03   | Salter-Harris Type III physeal fracture of upper end of tibia  | Diagnosis     | ICD-10-CM |
| S89.031  | Salter-Harris Type III physeal fracture of upper end of right tibia  | Diagnosis     | ICD-10-CM |
| S89.031A | Salter-Harris Type III physeal fracture of upper end of right tibia, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S89.031D | Salter-Harris Type III physeal fracture of upper end of right tibia, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S89.031G | Salter-Harris Type III physeal fracture of upper end of right tibia, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S89.031K | Salter-Harris Type III physeal fracture of upper end of right tibia, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S89.031P | Salter-Harris Type III physeal fracture of upper end of right tibia, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S89.031S | Salter-Harris Type III physeal fracture of upper end of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S89.032  | Salter-Harris Type III physeal fracture of upper end of left tibia  | Diagnosis     | ICD-10-CM |
| S89.032A | Salter-Harris Type III physeal fracture of upper end of left tibia, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S89.032D | Salter-Harris Type III physeal fracture of upper end of left tibia, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S89.032G | Salter-Harris Type III physeal fracture of upper end of left tibia, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S89.032K | Salter-Harris Type III physeal fracture of upper end of left tibia, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S89.032P | Salter-Harris Type III physeal fracture of upper end of left tibia, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S89.032S | Salter-Harris Type III physeal fracture of upper end of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S89.039  | Salter-Harris Type III physeal fracture of upper end of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S89.039A | Salter-Harris Type III physeal fracture of upper end of unspecified tibia, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S89.039D | Salter-Harris Type III physeal fracture of upper end of unspecified tibia, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S89.039G | Salter-Harris Type III physeal fracture of upper end of unspecified tibia, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S89.039K | Salter-Harris Type III physeal fracture of upper end of unspecified tibia, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S89.039P | Salter-Harris Type III physeal fracture of upper end of unspecified tibia, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S89.039S | Salter-Harris Type III physeal fracture of upper end of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S89.04   | Salter-Harris Type IV physeal fracture of upper end of tibia  | Diagnosis     | ICD-10-CM |
| S89.041  | Salter-Harris Type IV physeal fracture of upper end of right tibia  | Diagnosis     | ICD-10-CM |
| S89.041A | Salter-Harris Type IV physeal fracture of upper end of right tibia, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S89.041D | Salter-Harris Type IV physeal fracture of upper end of right tibia, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S89.041G | Salter-Harris Type IV physeal fracture of upper end of right tibia, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S89.041K | Salter-Harris Type IV physeal fracture of upper end of right tibia, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S89.041P | Salter-Harris Type IV physeal fracture of upper end of right tibia, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S89.041S | Salter-Harris Type IV physeal fracture of upper end of right tibia, sequela   | Diagnosis     | ICD-10-CM |
| S89.042  | Salter-Harris Type IV physeal fracture of upper end of left tibia   | Diagnosis     | ICD-10-CM |
| S89.042A | Salter-Harris Type IV physeal fracture of upper end of left tibia, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S89.042D | Salter-Harris Type IV physeal fracture of upper end of left tibia, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S89.042G | Salter-Harris Type IV physeal fracture of upper end of left tibia, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S89.042K | Salter-Harris Type IV physeal fracture of upper end of left tibia, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S89.042P | Salter-Harris Type IV physeal fracture of upper end of left tibia, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S89.042S | Salter-Harris Type IV physeal fracture of upper end of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S89.049  | Salter-Harris Type IV physeal fracture of upper end of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S89.049A | Salter-Harris Type IV physeal fracture of upper end of unspecified tibia, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S89.049D | Salter-Harris Type IV physeal fracture of upper end of unspecified tibia, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S89.049G | Salter-Harris Type IV physeal fracture of upper end of unspecified tibia, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S89.049K | Salter-Harris Type IV physeal fracture of upper end of unspecified tibia, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S89.049P | Salter-Harris Type IV physeal fracture of upper end of unspecified tibia, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S89.049S | Salter-Harris Type IV physeal fracture of upper end of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S89.09   | Other physeal fracture of upper end of tibia   | Diagnosis     | ICD-10-CM |
| S89.091  | Other physeal fracture of upper end of right tibia   | Diagnosis     | ICD-10-CM |
| S89.091A | Other physeal fracture of upper end of right tibia, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S89.091D | Other physeal fracture of upper end of right tibia, subsequent encounter for fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S89.091G | Other physeal fracture of upper end of right tibia, subsequent encounter for fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S89.091K | Other physeal fracture of upper end of right tibia, subsequent encounter for fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S89.091P | Other physeal fracture of upper end of right tibia, subsequent encounter for fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S89.091S | Other physeal fracture of upper end of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S89.092  | Other physeal fracture of upper end of left tibia  | Diagnosis     | ICD-10-CM |
| S89.092A | Other physeal fracture of upper end of left tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S89.092D | Other physeal fracture of upper end of left tibia, subsequent encounter for fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S89.092G | Other physeal fracture of upper end of left tibia, subsequent encounter for fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S89.092K | Other physeal fracture of upper end of left tibia, subsequent encounter for fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S89.092P | Other physeal fracture of upper end of left tibia, subsequent encounter for fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S89.092S | Other physeal fracture of upper end of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S89.099  | Other physeal fracture of upper end of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S89.099A | Other physeal fracture of upper end of unspecified tibia, initial encounter for closed fracture                                  | Diagnosis     | ICD-10-CM |
| S89.099D | Other physeal fracture of upper end of unspecified tibia, subsequent encounter for fracture with routine healing                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S89.099G | Other physeal fracture of upper end of unspecified tibia, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S89.099K | Other physeal fracture of upper end of unspecified tibia, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S89.099P | Other physeal fracture of upper end of unspecified tibia, subsequent encounter for fracture with malunion                 | Diagnosis     | ICD-10-CM |
| S89.099S | Other physeal fracture of upper end of unspecified tibia, sequela   | Diagnosis     | ICD-10-CM |
| S89.1    | Physeal fracture of lower end of tibia  | Diagnosis     | ICD-10-CM |
| S89.10   | Unspecified physeal fracture of lower end of tibia  | Diagnosis     | ICD-10-CM |
| S89.101  | Unspecified physeal fracture of lower end of right tibia  | Diagnosis     | ICD-10-CM |
| S89.101A | Unspecified physeal fracture of lower end of right tibia, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S89.101D | Unspecified physeal fracture of lower end of right tibia, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S89.101G | Unspecified physeal fracture of lower end of right tibia, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S89.101K | Unspecified physeal fracture of lower end of right tibia, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S89.101P | Unspecified physeal fracture of lower end of right tibia, subsequent encounter for fracture with malunion                 | Diagnosis     | ICD-10-CM |
| S89.101S | Unspecified physeal fracture of lower end of right tibia, sequela   | Diagnosis     | ICD-10-CM |
| S89.102  | Unspecified physeal fracture of lower end of left tibia   | Diagnosis     | ICD-10-CM |
| S89.102A | Unspecified physeal fracture of lower end of left tibia, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S89.102D | Unspecified physeal fracture of lower end of left tibia, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S89.102G | Unspecified physeal fracture of lower end of left tibia, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S89.102K | Unspecified physeal fracture of lower end of left tibia, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S89.102P | Unspecified physeal fracture of lower end of left tibia, subsequent encounter for fracture with malunion                  | Diagnosis     | ICD-10-CM |
| S89.102S | Unspecified physeal fracture of lower end of left tibia, sequela  | Diagnosis     | ICD-10-CM |
| S89.109  | Unspecified physeal fracture of lower end of unspecified tibia  | Diagnosis     | ICD-10-CM |
| S89.109A | Unspecified physeal fracture of lower end of unspecified tibia, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S89.109D | Unspecified physeal fracture of lower end of unspecified tibia, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S89.109G | Unspecified physeal fracture of lower end of unspecified tibia, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S89.109K | Unspecified physeal fracture of lower end of unspecified tibia, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S89.109P | Unspecified physeal fracture of lower end of unspecified tibia, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S89.109S | Unspecified physeal fracture of lower end of unspecified tibia, sequela   | Diagnosis     | ICD-10-CM |
| S89.11   | Salter-Harris Type I physeal fracture of lower end of tibia   | Diagnosis     | ICD-10-CM |
| S89.111  | Salter-Harris Type I physeal fracture of lower end of right tibia   | Diagnosis     | ICD-10-CM |
| S89.111A | Salter-Harris Type I physeal fracture of lower end of right tibia, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S89.111D | Salter-Harris Type I physeal fracture of lower end of right tibia, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S89.111G | Salter-Harris Type I physeal fracture of lower end of right tibia, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S89.111K | Salter-Harris Type I physeal fracture of lower end of right tibia, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S89.111P | Salter-Harris Type I physeal fracture of lower end of right tibia, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S89.111S | Salter-Harris Type I physeal fracture of lower end of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S89.112  | Salter-Harris Type I physeal fracture of lower end of left tibia  | Diagnosis     | ICD-10-CM |
| S89.112A | Salter-Harris Type I physeal fracture of lower end of left tibia, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S89.112D | Salter-Harris Type I physeal fracture of lower end of left tibia, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S89.112G | Salter-Harris Type I physeal fracture of lower end of left tibia, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S89.112K | Salter-Harris Type I physeal fracture of lower end of left tibia, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S89.112P | Salter-Harris Type I physeal fracture of lower end of left tibia, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S89.112S | Salter-Harris Type I physeal fracture of lower end of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S89.119  | Salter-Harris Type I physeal fracture of lower end of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S89.119A | Salter-Harris Type I physeal fracture of lower end of unspecified tibia, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S89.119D | Salter-Harris Type I physeal fracture of lower end of unspecified tibia, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S89.119G | Salter-Harris Type I physeal fracture of lower end of unspecified tibia, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S89.119K | Salter-Harris Type I physeal fracture of lower end of unspecified tibia, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S89.119P | Salter-Harris Type I physeal fracture of lower end of unspecified tibia, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S89.119S | Salter-Harris Type I physeal fracture of lower end of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S89.12   | Salter-Harris Type II physeal fracture of lower end of tibia  | Diagnosis     | ICD-10-CM |
| S89.121  | Salter-Harris Type II physeal fracture of lower end of right tibia  | Diagnosis     | ICD-10-CM |
| S89.121A | Salter-Harris Type II physeal fracture of lower end of right tibia, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S89.121D | Salter-Harris Type II physeal fracture of lower end of right tibia, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S89.121G | Salter-Harris Type II physeal fracture of lower end of right tibia, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S89.121K | Salter-Harris Type II physeal fracture of lower end of right tibia, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S89.121P | Salter-Harris Type II physeal fracture of lower end of right tibia, subsequent encounter for fracture with malunion             | Diagnosis     | ICD-10-CM |
| S89.121S | Salter-Harris Type II physeal fracture of lower end of right tibia, sequela   | Diagnosis     | ICD-10-CM |
| S89.122  | Salter-Harris Type II physeal fracture of lower end of left tibia   | Diagnosis     | ICD-10-CM |
| S89.122A | Salter-Harris Type II physeal fracture of lower end of left tibia, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S89.122D | Salter-Harris Type II physeal fracture of lower end of left tibia, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S89.122G | Salter-Harris Type II physeal fracture of lower end of left tibia, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S89.122K | Salter-Harris Type II physeal fracture of lower end of left tibia, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S89.122P | Salter-Harris Type II physeal fracture of lower end of left tibia, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S89.122S | Salter-Harris Type II physeal fracture of lower end of left tibia, sequela  | Diagnosis     | ICD-10-CM |
| S89.129  | Salter-Harris Type II physeal fracture of lower end of unspecified tibia  | Diagnosis     | ICD-10-CM |
| S89.129A | Salter-Harris Type II physeal fracture of lower end of unspecified tibia, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S89.129D | Salter-Harris Type II physeal fracture of lower end of unspecified tibia, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S89.129G | Salter-Harris Type II physeal fracture of lower end of unspecified tibia, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S89.129K | Salter-Harris Type II physeal fracture of lower end of unspecified tibia, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S89.129P | Salter-Harris Type II physeal fracture of lower end of unspecified tibia, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S89.129S | Salter-Harris Type II physeal fracture of lower end of unspecified tibia, sequela   | Diagnosis     | ICD-10-CM |
| S89.13   | Salter-Harris Type III physeal fracture of lower end of tibia   | Diagnosis     | ICD-10-CM |
| S89.131  | Salter-Harris Type III physeal fracture of lower end of right tibia   | Diagnosis     | ICD-10-CM |
| S89.131A | Salter-Harris Type III physeal fracture of lower end of right tibia, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S89.131D | Salter-Harris Type III physeal fracture of lower end of right tibia, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S89.131G | Salter-Harris Type III physeal fracture of lower end of right tibia, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S89.131K | Salter-Harris Type III physeal fracture of lower end of right tibia, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S89.131P | Salter-Harris Type III physeal fracture of lower end of right tibia, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S89.131S | Salter-Harris Type III physeal fracture of lower end of right tibia, sequela  | Diagnosis     | ICD-10-CM |
| S89.132  | Salter-Harris Type III physeal fracture of lower end of left tibia  | Diagnosis     | ICD-10-CM |
| S89.132A | Salter-Harris Type III physeal fracture of lower end of left tibia, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S89.132D | Salter-Harris Type III physeal fracture of lower end of left tibia, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S89.132G | Salter-Harris Type III physeal fracture of lower end of left tibia, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S89.132K | Salter-Harris Type III physeal fracture of lower end of left tibia, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S89.132P | Salter-Harris Type III physeal fracture of lower end of left tibia, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S89.132S | Salter-Harris Type III physeal fracture of lower end of left tibia, sequela   | Diagnosis     | ICD-10-CM |
| S89.139  | Salter-Harris Type III physeal fracture of lower end of unspecified tibia   | Diagnosis     | ICD-10-CM |
| S89.139A | Salter-Harris Type III physeal fracture of lower end of unspecified tibia, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S89.139D | Salter-Harris Type III physeal fracture of lower end of unspecified tibia, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S89.139G | Salter-Harris Type III physeal fracture of lower end of unspecified tibia, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S89.139K | Salter-Harris Type III physeal fracture of lower end of unspecified tibia, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S89.139P | Salter-Harris Type III physeal fracture of lower end of unspecified tibia, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S89.139S | Salter-Harris Type III physeal fracture of lower end of unspecified tibia, sequela  | Diagnosis     | ICD-10-CM |
| S89.14   | Salter-Harris Type IV physeal fracture of lower end of tibia  | Diagnosis     | ICD-10-CM |
| S89.141  | Salter-Harris Type IV physeal fracture of lower end of right tibia  | Diagnosis     | ICD-10-CM |
| S89.141A | Salter-Harris Type IV physeal fracture of lower end of right tibia, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S89.141D | Salter-Harris Type IV physeal fracture of lower end of right tibia, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S89.141G | Salter-Harris Type IV physeal fracture of lower end of right tibia, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S89.141K | Salter-Harris Type IV physeal fracture of lower end of right tibia, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S89.141P | Salter-Harris Type IV physeal fracture of lower end of right tibia, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S89.141S | Salter-Harris Type IV physeal fracture of lower end of right tibia, sequela   | Diagnosis     | ICD-10-CM |
| S89.142  | Salter-Harris Type IV physeal fracture of lower end of left tibia   | Diagnosis     | ICD-10-CM |
| S89.142A | Salter-Harris Type IV physeal fracture of lower end of left tibia, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S89.142D | Salter-Harris Type IV physeal fracture of lower end of left tibia, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S89.142G | Salter-Harris Type IV physeal fracture of lower end of left tibia, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S89.142K | Salter-Harris Type IV physeal fracture of lower end of left tibia, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S89.142P | Salter-Harris Type IV physeal fracture of lower end of left tibia, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S89.142S | Salter-Harris Type IV physeal fracture of lower end of left tibia, sequela  | Diagnosis     | ICD-10-CM |
| S89.149  | Salter-Harris Type IV physeal fracture of lower end of unspecified tibia  | Diagnosis     | ICD-10-CM |
| S89.149A | Salter-Harris Type IV physeal fracture of lower end of unspecified tibia, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S89.149D | Salter-Harris Type IV physeal fracture of lower end of unspecified tibia, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S89.149G | Salter-Harris Type IV physeal fracture of lower end of unspecified tibia, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S89.149K | Salter-Harris Type IV physeal fracture of lower end of unspecified tibia, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S89.149P | Salter-Harris Type IV physeal fracture of lower end of unspecified tibia, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S89.149S | Salter-Harris Type IV physeal fracture of lower end of unspecified tibia, sequela   | Diagnosis     | ICD-10-CM |
| S89.19   | Other physeal fracture of lower end of tibia  | Diagnosis     | ICD-10-CM |
| S89.191  | Other physeal fracture of lower end of right tibia  | Diagnosis     | ICD-10-CM |
| S89.191A | Other physeal fracture of lower end of right tibia, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S89.191D | Other physeal fracture of lower end of right tibia, subsequent encounter for fracture with routine healing                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S89.191G | Other physeal fracture of lower end of right tibia, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S89.191K | Other physeal fracture of lower end of right tibia, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S89.191P | Other physeal fracture of lower end of right tibia, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S89.191S | Other physeal fracture of lower end of right tibia, sequela   | Diagnosis     | ICD-10-CM |
| S89.192  | Other physeal fracture of lower end of left tibia   | Diagnosis     | ICD-10-CM |
| S89.192A | Other physeal fracture of lower end of left tibia, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S89.192D | Other physeal fracture of lower end of left tibia, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S89.192G | Other physeal fracture of lower end of left tibia, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S89.192K | Other physeal fracture of lower end of left tibia, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S89.192P | Other physeal fracture of lower end of left tibia, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S89.192S | Other physeal fracture of lower end of left tibia, sequela  | Diagnosis     | ICD-10-CM |
| S89.199  | Other physeal fracture of lower end of unspecified tibia  | Diagnosis     | ICD-10-CM |
| S89.199A | Other physeal fracture of lower end of unspecified tibia, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S89.199D | Other physeal fracture of lower end of unspecified tibia, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S89.199G | Other physeal fracture of lower end of unspecified tibia, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S89.199K | Other physeal fracture of lower end of unspecified tibia, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S89.199P | Other physeal fracture of lower end of unspecified tibia, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S89.199S | Other physeal fracture of lower end of unspecified tibia, sequela   | Diagnosis     | ICD-10-CM |
| S89.2    | Physeal fracture of upper end of fibula   | Diagnosis     | ICD-10-CM |
| S89.20   | Unspecified physeal fracture of upper end of fibula   | Diagnosis     | ICD-10-CM |
| S89.201  | Unspecified physeal fracture of upper end of right fibula   | Diagnosis     | ICD-10-CM |
| S89.201A | Unspecified physeal fracture of upper end of right fibula, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S89.201D | Unspecified physeal fracture of upper end of right fibula, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S89.201G | Unspecified physeal fracture of upper end of right fibula, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S89.201K | Unspecified physeal fracture of upper end of right fibula, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S89.201P | Unspecified physeal fracture of upper end of right fibula, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S89.201S | Unspecified physeal fracture of upper end of right fibula, sequela  | Diagnosis     | ICD-10-CM |
| S89.202  | Unspecified physeal fracture of upper end of left fibula  | Diagnosis     | ICD-10-CM |
| S89.202A | Unspecified physeal fracture of upper end of left fibula, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S89.202D | Unspecified physeal fracture of upper end of left fibula, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S89.202G | Unspecified physeal fracture of upper end of left fibula, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S89.202K | Unspecified physeal fracture of upper end of left fibula, subsequent encounter for fracture with nonunion                        | Diagnosis     | ICD-10-CM |
| S89.202P | Unspecified physeal fracture of upper end of left fibula, subsequent encounter for fracture with malunion                        | Diagnosis     | ICD-10-CM |
| S89.202S | Unspecified physeal fracture of upper end of left fibula, sequela  | Diagnosis     | ICD-10-CM |
| S89.209  | Unspecified physeal fracture of upper end of unspecified fibula  | Diagnosis     | ICD-10-CM |
| S89.209A | Unspecified physeal fracture of upper end of unspecified fibula, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S89.209D | Unspecified physeal fracture of upper end of unspecified fibula, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S89.209G | Unspecified physeal fracture of upper end of unspecified fibula, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S89.209K | Unspecified physeal fracture of upper end of unspecified fibula, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S89.209P | Unspecified physeal fracture of upper end of unspecified fibula, subsequent encounter for fracture with malunion                 | Diagnosis     | ICD-10-CM |
| S89.209S | Unspecified physeal fracture of upper end of unspecified fibula, sequela   | Diagnosis     | ICD-10-CM |
| S89.21   | Salter-Harris Type I physeal fracture of upper end of fibula   | Diagnosis     | ICD-10-CM |
| S89.211  | Salter-Harris Type I physeal fracture of upper end of right fibula   | Diagnosis     | ICD-10-CM |
| S89.211A | Salter-Harris Type I physeal fracture of upper end of right fibula, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S89.211D | Salter-Harris Type I physeal fracture of upper end of right fibula, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S89.211G | Salter-Harris Type I physeal fracture of upper end of right fibula, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S89.211K | Salter-Harris Type I physeal fracture of upper end of right fibula, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S89.211P | Salter-Harris Type I physeal fracture of upper end of right fibula, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S89.211S | Salter-Harris Type I physeal fracture of upper end of right fibula, sequela  | Diagnosis     | ICD-10-CM |
| S89.212  | Salter-Harris Type I physeal fracture of upper end of left fibula  | Diagnosis     | ICD-10-CM |
| S89.212A | Salter-Harris Type I physeal fracture of upper end of left fibula, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S89.212D | Salter-Harris Type I physeal fracture of upper end of left fibula, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S89.212G | Salter-Harris Type I physeal fracture of upper end of left fibula, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S89.212K | Salter-Harris Type I physeal fracture of upper end of left fibula, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S89.212P | Salter-Harris Type I physeal fracture of upper end of left fibula, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S89.212S | Salter-Harris Type I physeal fracture of upper end of left fibula, sequela   | Diagnosis     | ICD-10-CM |
| S89.219  | Salter-Harris Type I physeal fracture of upper end of unspecified fibula   | Diagnosis     | ICD-10-CM |
| S89.219A | Salter-Harris Type I physeal fracture of upper end of unspecified fibula, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S89.219D | Salter-Harris Type I physeal fracture of upper end of unspecified fibula, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S89.219G | Salter-Harris Type I physeal fracture of upper end of unspecified fibula, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S89.219K | Salter-Harris Type I physeal fracture of upper end of unspecified fibula, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S89.219P | Salter-Harris Type I physeal fracture of upper end of unspecified fibula, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S89.219S | Salter-Harris Type I physeal fracture of upper end of unspecified fibula, sequela   | Diagnosis     | ICD-10-CM |
| S89.22   | Salter-Harris Type II physeal fracture of upper end of fibula   | Diagnosis     | ICD-10-CM |
| S89.221  | Salter-Harris Type II physeal fracture of upper end of right fibula   | Diagnosis     | ICD-10-CM |
| S89.221A | Salter-Harris Type II physeal fracture of upper end of right fibula, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S89.221D | Salter-Harris Type II physeal fracture of upper end of right fibula, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S89.221G | Salter-Harris Type II physeal fracture of upper end of right fibula, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S89.221K | Salter-Harris Type II physeal fracture of upper end of right fibula, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S89.221P | Salter-Harris Type II physeal fracture of upper end of right fibula, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S89.221S | Salter-Harris Type II physeal fracture of upper end of right fibula, sequela  | Diagnosis     | ICD-10-CM |
| S89.222  | Salter-Harris Type II physeal fracture of upper end of left fibula  | Diagnosis     | ICD-10-CM |
| S89.222A | Salter-Harris Type II physeal fracture of upper end of left fibula, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S89.222D | Salter-Harris Type II physeal fracture of upper end of left fibula, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S89.222G | Salter-Harris Type II physeal fracture of upper end of left fibula, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S89.222K | Salter-Harris Type II physeal fracture of upper end of left fibula, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S89.222P | Salter-Harris Type II physeal fracture of upper end of left fibula, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S89.222S | Salter-Harris Type II physeal fracture of upper end of left fibula, sequela   | Diagnosis     | ICD-10-CM |
| S89.229  | Salter-Harris Type II physeal fracture of upper end of unspecified fibula   | Diagnosis     | ICD-10-CM |
| S89.229A | Salter-Harris Type II physeal fracture of upper end of unspecified fibula, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S89.229D | Salter-Harris Type II physeal fracture of upper end of unspecified fibula, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S89.229G | Salter-Harris Type II physeal fracture of upper end of unspecified fibula, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S89.229K | Salter-Harris Type II physeal fracture of upper end of unspecified fibula, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S89.229P | Salter-Harris Type II physeal fracture of upper end of unspecified fibula, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S89.229S | Salter-Harris Type II physeal fracture of upper end of unspecified fibula, sequela  | Diagnosis     | ICD-10-CM |
| S89.29   | Other physeal fracture of upper end of fibula   | Diagnosis     | ICD-10-CM |
| S89.291  | Other physeal fracture of upper end of right fibula   | Diagnosis     | ICD-10-CM |
| S89.291A | Other physeal fracture of upper end of right fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S89.291D | Other physeal fracture of upper end of right fibula, subsequent encounter for fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S89.291G | Other physeal fracture of upper end of right fibula, subsequent encounter for fracture with delayed healing                       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S89.291K | Other physeal fracture of upper end of right fibula, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S89.291P | Other physeal fracture of upper end of right fibula, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S89.291S | Other physeal fracture of upper end of right fibula, sequela  | Diagnosis     | ICD-10-CM |
| S89.292  | Other physeal fracture of upper end of left fibula  | Diagnosis     | ICD-10-CM |
| S89.292A | Other physeal fracture of upper end of left fibula, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S89.292D | Other physeal fracture of upper end of left fibula, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S89.292G | Other physeal fracture of upper end of left fibula, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S89.292K | Other physeal fracture of upper end of left fibula, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S89.292P | Other physeal fracture of upper end of left fibula, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S89.292S | Other physeal fracture of upper end of left fibula, sequela   | Diagnosis     | ICD-10-CM |
| S89.299  | Other physeal fracture of upper end of unspecified fibula   | Diagnosis     | ICD-10-CM |
| S89.299A | Other physeal fracture of upper end of unspecified fibula, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S89.299D | Other physeal fracture of upper end of unspecified fibula, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S89.299G | Other physeal fracture of upper end of unspecified fibula, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S89.299K | Other physeal fracture of upper end of unspecified fibula, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S89.299P | Other physeal fracture of upper end of unspecified fibula, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S89.299S | Other physeal fracture of upper end of unspecified fibula, sequela  | Diagnosis     | ICD-10-CM |
| S89.3    | Physeal fracture of lower end of fibula   | Diagnosis     | ICD-10-CM |
| S89.30   | Unspecified physeal fracture of lower end of fibula   | Diagnosis     | ICD-10-CM |
| S89.301  | Unspecified physeal fracture of lower end of right fibula   | Diagnosis     | ICD-10-CM |
| S89.301A | Unspecified physeal fracture of lower end of right fibula, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S89.301D | Unspecified physeal fracture of lower end of right fibula, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S89.301G | Unspecified physeal fracture of lower end of right fibula, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S89.301K | Unspecified physeal fracture of lower end of right fibula, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S89.301P | Unspecified physeal fracture of lower end of right fibula, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S89.301S | Unspecified physeal fracture of lower end of right fibula, sequela  | Diagnosis     | ICD-10-CM |
| S89.302  | Unspecified physeal fracture of lower end of left fibula  | Diagnosis     | ICD-10-CM |
| S89.302A | Unspecified physeal fracture of lower end of left fibula, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S89.302D | Unspecified physeal fracture of lower end of left fibula, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S89.302G | Unspecified physeal fracture of lower end of left fibula, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S89.302K | Unspecified physeal fracture of lower end of left fibula, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S89.302P | Unspecified physeal fracture of lower end of left fibula, subsequent encounter for fracture with malunion                        | Diagnosis     | ICD-10-CM |
| S89.302S | Unspecified physeal fracture of lower end of left fibula, sequela  | Diagnosis     | ICD-10-CM |
| S89.309  | Unspecified physeal fracture of lower end of unspecified fibula  | Diagnosis     | ICD-10-CM |
| S89.309A | Unspecified physeal fracture of lower end of unspecified fibula, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S89.309D | Unspecified physeal fracture of lower end of unspecified fibula, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S89.309G | Unspecified physeal fracture of lower end of unspecified fibula, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S89.309K | Unspecified physeal fracture of lower end of unspecified fibula, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S89.309P | Unspecified physeal fracture of lower end of unspecified fibula, subsequent encounter for fracture with malunion                 | Diagnosis     | ICD-10-CM |
| S89.309S | Unspecified physeal fracture of lower end of unspecified fibula, sequela   | Diagnosis     | ICD-10-CM |
| S89.31   | Salter-Harris Type I physeal fracture of lower end of fibula   | Diagnosis     | ICD-10-CM |
| S89.311  | Salter-Harris Type I physeal fracture of lower end of right fibula   | Diagnosis     | ICD-10-CM |
| S89.311A | Salter-Harris Type I physeal fracture of lower end of right fibula, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S89.311D | Salter-Harris Type I physeal fracture of lower end of right fibula, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S89.311G | Salter-Harris Type I physeal fracture of lower end of right fibula, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S89.311K | Salter-Harris Type I physeal fracture of lower end of right fibula, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S89.311P | Salter-Harris Type I physeal fracture of lower end of right fibula, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S89.311S | Salter-Harris Type I physeal fracture of lower end of right fibula, sequela  | Diagnosis     | ICD-10-CM |
| S89.312  | Salter-Harris Type I physeal fracture of lower end of left fibula  | Diagnosis     | ICD-10-CM |
| S89.312A | Salter-Harris Type I physeal fracture of lower end of left fibula, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S89.312D | Salter-Harris Type I physeal fracture of lower end of left fibula, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S89.312G | Salter-Harris Type I physeal fracture of lower end of left fibula, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S89.312K | Salter-Harris Type I physeal fracture of lower end of left fibula, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S89.312P | Salter-Harris Type I physeal fracture of lower end of left fibula, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S89.312S | Salter-Harris Type I physeal fracture of lower end of left fibula, sequela   | Diagnosis     | ICD-10-CM |
| S89.319  | Salter-Harris Type I physeal fracture of lower end of unspecified fibula   | Diagnosis     | ICD-10-CM |
| S89.319A | Salter-Harris Type I physeal fracture of lower end of unspecified fibula, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S89.319D | Salter-Harris Type I physeal fracture of lower end of unspecified fibula, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S89.319G | Salter-Harris Type I physeal fracture of lower end of unspecified fibula, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S89.319K | Salter-Harris Type I physeal fracture of lower end of unspecified fibula, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S89.319P | Salter-Harris Type I physeal fracture of lower end of unspecified fibula, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S89.319S | Salter-Harris Type I physeal fracture of lower end of unspecified fibula, sequela   | Diagnosis     | ICD-10-CM |
| S89.32   | Salter-Harris Type II physeal fracture of lower end of fibula   | Diagnosis     | ICD-10-CM |
| S89.321  | Salter-Harris Type II physeal fracture of lower end of right fibula   | Diagnosis     | ICD-10-CM |
| S89.321A | Salter-Harris Type II physeal fracture of lower end of right fibula, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S89.321D | Salter-Harris Type II physeal fracture of lower end of right fibula, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S89.321G | Salter-Harris Type II physeal fracture of lower end of right fibula, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S89.321K | Salter-Harris Type II physeal fracture of lower end of right fibula, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S89.321P | Salter-Harris Type II physeal fracture of lower end of right fibula, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S89.321S | Salter-Harris Type II physeal fracture of lower end of right fibula, sequela  | Diagnosis     | ICD-10-CM |
| S89.322  | Salter-Harris Type II physeal fracture of lower end of left fibula  | Diagnosis     | ICD-10-CM |
| S89.322A | Salter-Harris Type II physeal fracture of lower end of left fibula, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S89.322D | Salter-Harris Type II physeal fracture of lower end of left fibula, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S89.322G | Salter-Harris Type II physeal fracture of lower end of left fibula, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S89.322K | Salter-Harris Type II physeal fracture of lower end of left fibula, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S89.322P | Salter-Harris Type II physeal fracture of lower end of left fibula, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S89.322S | Salter-Harris Type II physeal fracture of lower end of left fibula, sequela   | Diagnosis     | ICD-10-CM |
| S89.329  | Salter-Harris Type II physeal fracture of lower end of unspecified fibula   | Diagnosis     | ICD-10-CM |
| S89.329A | Salter-Harris Type II physeal fracture of lower end of unspecified fibula, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S89.329D | Salter-Harris Type II physeal fracture of lower end of unspecified fibula, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S89.329G | Salter-Harris Type II physeal fracture of lower end of unspecified fibula, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S89.329K | Salter-Harris Type II physeal fracture of lower end of unspecified fibula, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S89.329P | Salter-Harris Type II physeal fracture of lower end of unspecified fibula, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S89.329S | Salter-Harris Type II physeal fracture of lower end of unspecified fibula, sequela  | Diagnosis     | ICD-10-CM |
| S89.39   | Other physeal fracture of lower end of fibula   | Diagnosis     | ICD-10-CM |
| S89.391  | Other physeal fracture of lower end of right fibula   | Diagnosis     | ICD-10-CM |
| S89.391A | Other physeal fracture of lower end of right fibula, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S89.391D | Other physeal fracture of lower end of right fibula, subsequent encounter for fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S89.391G | Other physeal fracture of lower end of right fibula, subsequent encounter for fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S89.391K | Other physeal fracture of lower end of right fibula, subsequent encounter for fracture with nonunion                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S89.391P | Other physeal fracture of lower end of right fibula, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S89.391S | Other physeal fracture of lower end of right fibula, sequela  | Diagnosis     | ICD-10-CM |
| S89.392  | Other physeal fracture of lower end of left fibula  | Diagnosis     | ICD-10-CM |
| S89.392A | Other physeal fracture of lower end of left fibula, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S89.392D | Other physeal fracture of lower end of left fibula, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S89.392G | Other physeal fracture of lower end of left fibula, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S89.392K | Other physeal fracture of lower end of left fibula, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S89.392P | Other physeal fracture of lower end of left fibula, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S89.392S | Other physeal fracture of lower end of left fibula, sequela   | Diagnosis     | ICD-10-CM |
| S89.399  | Other physeal fracture of lower end of unspecified fibula   | Diagnosis     | ICD-10-CM |
| S89.399A | Other physeal fracture of lower end of unspecified fibula, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S89.399D | Other physeal fracture of lower end of unspecified fibula, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S89.399G | Other physeal fracture of lower end of unspecified fibula, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S89.399K | Other physeal fracture of lower end of unspecified fibula, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S89.399P | Other physeal fracture of lower end of unspecified fibula, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S89.399S | Other physeal fracture of lower end of unspecified fibula, sequela  | Diagnosis     | ICD-10-CM |
| S89.8    | Other specified injuries of lower leg   | Diagnosis     | ICD-10-CM |
| S89.80   | Other specified injuries of unspecified lower leg   | Diagnosis     | ICD-10-CM |
| S89.80XA | Other specified injuries of unspecified lower leg, initial encounter  | Diagnosis     | ICD-10-CM |
| S89.80XD | Other specified injuries of unspecified lower leg, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S89.80XS | Other specified injuries of unspecified lower leg, sequela  | Diagnosis     | ICD-10-CM |
| S89.81   | Other specified injuries of right lower leg   | Diagnosis     | ICD-10-CM |
| S89.81XA | Other specified injuries of right lower leg, initial encounter  | Diagnosis     | ICD-10-CM |
| S89.81XD | Other specified injuries of right lower leg, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S89.81XS | Other specified injuries of right lower leg, sequela  | Diagnosis     | ICD-10-CM |
| S89.82   | Other specified injuries of left lower leg  | Diagnosis     | ICD-10-CM |
| S89.82XA | Other specified injuries of left lower leg, initial encounter   | Diagnosis     | ICD-10-CM |
| S89.82XD | Other specified injuries of left lower leg, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S89.82XS | Other specified injuries of left lower leg, sequela   | Diagnosis     | ICD-10-CM |
| S89.9    | Unspecified injury of lower leg   | Diagnosis     | ICD-10-CM |
| S89.90   | Unspecified injury of unspecified lower leg   | Diagnosis     | ICD-10-CM |
| S89.90XA | Unspecified injury of unspecified lower leg, initial encounter  | Diagnosis     | ICD-10-CM |
| S89.90XD | Unspecified injury of unspecified lower leg, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S89.90XS | Unspecified injury of unspecified lower leg, sequela  | Diagnosis     | ICD-10-CM |
| S89.91   | Unspecified injury of right lower leg   | Diagnosis     | ICD-10-CM |
| S89.91XA | Unspecified injury of right lower leg, initial encounter  | Diagnosis     | ICD-10-CM |
| S89.91XD | Unspecified injury of right lower leg, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S89.91XS | Unspecified injury of right lower leg, sequela  | Diagnosis     | ICD-10-CM |
| S89.92   | Unspecified injury of left lower leg  | Diagnosis     | ICD-10-CM |
| S89.92XA | Unspecified injury of left lower leg, initial encounter   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S89.92XD | Unspecified injury of left lower leg, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S89.92XS | Unspecified injury of left lower leg, sequela                                       | Diagnosis     | ICD-10-CM |
| S90      | Superficial injury of ankle, foot and toes  | Diagnosis     | ICD-10-CM |
| S90.0    | Contusion of ankle  | Diagnosis     | ICD-10-CM |
| S90.00   | Contusion of unspecified ankle  | Diagnosis     | ICD-10-CM |
| S90.00XA | Contusion of unspecified ankle, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S90.00XD | Contusion of unspecified ankle, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S90.00XS | Contusion of unspecified ankle, sequela   | Diagnosis     | ICD-10-CM |
| S90.01   | Contusion of right ankle  | Diagnosis     | ICD-10-CM |
| S90.01XA | Contusion of right ankle, initial encounter   | Diagnosis     | ICD-10-CM |
| S90.01XD | Contusion of right ankle, subsequent encounter                                      | Diagnosis     | ICD-10-CM |
| S90.01XS | Contusion of right ankle, sequela   | Diagnosis     | ICD-10-CM |
| S90.02   | Contusion of left ankle   | Diagnosis     | ICD-10-CM |
| S90.02XA | Contusion of left ankle, initial encounter  | Diagnosis     | ICD-10-CM |
| S90.02XD | Contusion of left ankle, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S90.02XS | Contusion of left ankle, sequela  | Diagnosis     | ICD-10-CM |
| S90.1    | Contusion of toe without damage to nail   | Diagnosis     | ICD-10-CM |
| S90.11   | Contusion of great toe without damage to nail                                       | Diagnosis     | ICD-10-CM |
| S90.111  | Contusion of right great toe without damage to nail                                 | Diagnosis     | ICD-10-CM |
| S90.111A | Contusion of right great toe without damage to nail, initial encounter              | Diagnosis     | ICD-10-CM |
| S90.111D | Contusion of right great toe without damage to nail, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S90.111S | Contusion of right great toe without damage to nail, sequela                        | Diagnosis     | ICD-10-CM |
| S90.112  | Contusion of left great toe without damage to nail                                  | Diagnosis     | ICD-10-CM |
| S90.112A | Contusion of left great toe without damage to nail, initial encounter               | Diagnosis     | ICD-10-CM |
| S90.112D | Contusion of left great toe without damage to nail, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S90.112S | Contusion of left great toe without damage to nail, sequela                         | Diagnosis     | ICD-10-CM |
| S90.119  | Contusion of unspecified great toe without damage to nail                           | Diagnosis     | ICD-10-CM |
| S90.119A | Contusion of unspecified great toe without damage to nail, initial encounter        | Diagnosis     | ICD-10-CM |
| S90.119D | Contusion of unspecified great toe without damage to nail, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S90.119S | Contusion of unspecified great toe without damage to nail, sequela                  | Diagnosis     | ICD-10-CM |
| S90.12   | Contusion of lesser toe without damage to nail                                      | Diagnosis     | ICD-10-CM |
| S90.121  | Contusion of right lesser toe(s) without damage to nail                             | Diagnosis     | ICD-10-CM |
| S90.121A | Contusion of right lesser toe(s) without damage to nail, initial encounter          | Diagnosis     | ICD-10-CM |
| S90.121D | Contusion of right lesser toe(s) without damage to nail, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S90.121S | Contusion of right lesser toe(s) without damage to nail, sequela                    | Diagnosis     | ICD-10-CM |
| S90.122  | Contusion of left lesser toe(s) without damage to nail                              | Diagnosis     | ICD-10-CM |
| S90.122A | Contusion of left lesser toe(s) without damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S90.122D | Contusion of left lesser toe(s) without damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S90.122S | Contusion of left lesser toe(s) without damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S90.129  | Contusion of unspecified lesser toe(s) without damage to nail                       | Diagnosis     | ICD-10-CM |
| S90.129A | Contusion of unspecified lesser toe(s) without damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S90.129D | Contusion of unspecified lesser toe(s) without damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S90.129S | Contusion of unspecified lesser toe(s) without damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S90.2    | Contusion of toe with damage to nail  | Diagnosis     | ICD-10-CM |
| S90.21   | Contusion of great toe with damage to nail  | Diagnosis     | ICD-10-CM |
| S90.211  | Contusion of right great toe with damage to nail                                    | Diagnosis     | ICD-10-CM |
| S90.211A | Contusion of right great toe with damage to nail, initial encounter                 | Diagnosis     | ICD-10-CM |
| S90.211D | Contusion of right great toe with damage to nail, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S90.211S | Contusion of right great toe with damage to nail, sequela                           | Diagnosis     | ICD-10-CM |
| S90.212  | Contusion of left great toe with damage to nail                                     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S90.212A | Contusion of left great toe with damage to nail, initial encounter               | Diagnosis     | ICD-10-CM |
| S90.212D | Contusion of left great toe with damage to nail, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S90.212S | Contusion of left great toe with damage to nail, sequela                         | Diagnosis     | ICD-10-CM |
| S90.219  | Contusion of unspecified great toe with damage to nail                           | Diagnosis     | ICD-10-CM |
| S90.219A | Contusion of unspecified great toe with damage to nail, initial encounter        | Diagnosis     | ICD-10-CM |
| S90.219D | Contusion of unspecified great toe with damage to nail, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S90.219S | Contusion of unspecified great toe with damage to nail, sequela                  | Diagnosis     | ICD-10-CM |
| S90.22   | Contusion of lesser toe with damage to nail                                      | Diagnosis     | ICD-10-CM |
| S90.221  | Contusion of right lesser toe(s) with damage to nail                             | Diagnosis     | ICD-10-CM |
| S90.221A | Contusion of right lesser toe(s) with damage to nail, initial encounter          | Diagnosis     | ICD-10-CM |
| S90.221D | Contusion of right lesser toe(s) with damage to nail, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S90.221S | Contusion of right lesser toe(s) with damage to nail, sequela                    | Diagnosis     | ICD-10-CM |
| S90.222  | Contusion of left lesser toe(s) with damage to nail                              | Diagnosis     | ICD-10-CM |
| S90.222A | Contusion of left lesser toe(s) with damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S90.222D | Contusion of left lesser toe(s) with damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S90.222S | Contusion of left lesser toe(s) with damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S90.229  | Contusion of unspecified lesser toe(s) with damage to nail                       | Diagnosis     | ICD-10-CM |
| S90.229A | Contusion of unspecified lesser toe(s) with damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S90.229D | Contusion of unspecified lesser toe(s) with damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S90.229S | Contusion of unspecified lesser toe(s) with damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S90.3    | Contusion of foot  | Diagnosis     | ICD-10-CM |
| S90.30   | Contusion of unspecified foot  | Diagnosis     | ICD-10-CM |
| S90.30XA | Contusion of unspecified foot, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S90.30XD | Contusion of unspecified foot, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S90.30XS | Contusion of unspecified foot, sequela   | Diagnosis     | ICD-10-CM |
| S90.31   | Contusion of right foot  | Diagnosis     | ICD-10-CM |
| S90.31XA | Contusion of right foot, initial encounter                                       | Diagnosis     | ICD-10-CM |
| S90.31XD | Contusion of right foot, subsequent encounter                                    | Diagnosis     | ICD-10-CM |
| S90.31XS | Contusion of right foot, sequela   | Diagnosis     | ICD-10-CM |
| S90.32   | Contusion of left foot   | Diagnosis     | ICD-10-CM |
| S90.32XA | Contusion of left foot, initial encounter  | Diagnosis     | ICD-10-CM |
| S90.32XD | Contusion of left foot, subsequent encounter                                     | Diagnosis     | ICD-10-CM |
| S90.32XS | Contusion of left foot, sequela  | Diagnosis     | ICD-10-CM |
| S90.4    | Other superficial injuries of toe  | Diagnosis     | ICD-10-CM |
| S90.41   | Abrasion of toe  | Diagnosis     | ICD-10-CM |
| S90.411  | Abrasion, right great toe  | Diagnosis     | ICD-10-CM |
| S90.411A | Abrasion, right great toe, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S90.411D | Abrasion, right great toe, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S90.411S | Abrasion, right great toe, sequela   | Diagnosis     | ICD-10-CM |
| S90.412  | Abrasion, left great toe   | Diagnosis     | ICD-10-CM |
| S90.412A | Abrasion, left great toe, initial encounter                                      | Diagnosis     | ICD-10-CM |
| S90.412D | Abrasion, left great toe, subsequent encounter                                   | Diagnosis     | ICD-10-CM |
| S90.412S | Abrasion, left great toe, sequela  | Diagnosis     | ICD-10-CM |
| S90.413  | Abrasion, unspecified great toe  | Diagnosis     | ICD-10-CM |
| S90.413A | Abrasion, unspecified great toe, initial encounter                               | Diagnosis     | ICD-10-CM |
| S90.413D | Abrasion, unspecified great toe, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S90.413S | Abrasion, unspecified great toe, sequela   | Diagnosis     | ICD-10-CM |
| S90.414  | Abrasion, right lesser toe(s)  | Diagnosis     | ICD-10-CM |
| S90.414A | Abrasion, right lesser toe(s), initial encounter                                 | Diagnosis     | ICD-10-CM |
| S90.414D | Abrasion, right lesser toe(s), subsequent encounter                              | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S90.414S | Abrasion, right lesser toe(s), sequela                                | Diagnosis     | ICD-10-CM |
| S90.415  | Abrasion, left lesser toe(s)  | Diagnosis     | ICD-10-CM |
| S90.415A | Abrasion, left lesser toe(s), initial encounter                       | Diagnosis     | ICD-10-CM |
| S90.415D | Abrasion, left lesser toe(s), subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S90.415S | Abrasion, left lesser toe(s), sequela                                 | Diagnosis     | ICD-10-CM |
| S90.416  | Abrasion, unspecified lesser toe(s)                                   | Diagnosis     | ICD-10-CM |
| S90.416A | Abrasion, unspecified lesser toe(s), initial encounter                | Diagnosis     | ICD-10-CM |
| S90.416D | Abrasion, unspecified lesser toe(s), subsequent encounter             | Diagnosis     | ICD-10-CM |
| S90.416S | Abrasion, unspecified lesser toe(s), sequela                          | Diagnosis     | ICD-10-CM |
| S90.42   | Blister (nonthermal) of toe   | Diagnosis     | ICD-10-CM |
| S90.421  | Blister (nonthermal), right great toe                                 | Diagnosis     | ICD-10-CM |
| S90.421A | Blister (nonthermal), right great toe, initial encounter              | Diagnosis     | ICD-10-CM |
| S90.421D | Blister (nonthermal), right great toe, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S90.421S | Blister (nonthermal), right great toe, sequela                        | Diagnosis     | ICD-10-CM |
| S90.422  | Blister (nonthermal), left great toe                                  | Diagnosis     | ICD-10-CM |
| S90.422A | Blister (nonthermal), left great toe, initial encounter               | Diagnosis     | ICD-10-CM |
| S90.422D | Blister (nonthermal), left great toe, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S90.422S | Blister (nonthermal), left great toe, sequela                         | Diagnosis     | ICD-10-CM |
| S90.423  | Blister (nonthermal), unspecified great toe                           | Diagnosis     | ICD-10-CM |
| S90.423A | Blister (nonthermal), unspecified great toe, initial encounter        | Diagnosis     | ICD-10-CM |
| S90.423D | Blister (nonthermal), unspecified great toe, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S90.423S | Blister (nonthermal), unspecified great toe, sequela                  | Diagnosis     | ICD-10-CM |
| S90.424  | Blister (nonthermal), right lesser toe(s)                             | Diagnosis     | ICD-10-CM |
| S90.424A | Blister (nonthermal), right lesser toe(s), initial encounter          | Diagnosis     | ICD-10-CM |
| S90.424D | Blister (nonthermal), right lesser toe(s), subsequent encounter       | Diagnosis     | ICD-10-CM |
| S90.424S | Blister (nonthermal), right lesser toe(s), sequela                    | Diagnosis     | ICD-10-CM |
| S90.425  | Blister (nonthermal), left lesser toe(s)                              | Diagnosis     | ICD-10-CM |
| S90.425A | Blister (nonthermal), left lesser toe(s), initial encounter           | Diagnosis     | ICD-10-CM |
| S90.425D | Blister (nonthermal), left lesser toe(s), subsequent encounter        | Diagnosis     | ICD-10-CM |
| S90.425S | Blister (nonthermal), left lesser toe(s), sequela                     | Diagnosis     | ICD-10-CM |
| S90.426  | Blister (nonthermal), unspecified lesser toe(s)                       | Diagnosis     | ICD-10-CM |
| S90.426A | Blister (nonthermal), unspecified lesser toe(s), initial encounter    | Diagnosis     | ICD-10-CM |
| S90.426D | Blister (nonthermal), unspecified lesser toe(s), subsequent encounter | Diagnosis     | ICD-10-CM |
| S90.426S | Blister (nonthermal), unspecified lesser toe(s), sequela              | Diagnosis     | ICD-10-CM |
| S90.44   | External constriction of toe  | Diagnosis     | ICD-10-CM |
| S90.441  | External constriction, right great toe                                | Diagnosis     | ICD-10-CM |
| S90.441A | External constriction, right great toe, initial encounter             | Diagnosis     | ICD-10-CM |
| S90.441D | External constriction, right great toe, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S90.441S | External constriction, right great toe, sequela                       | Diagnosis     | ICD-10-CM |
| S90.442  | External constriction, left great toe                                 | Diagnosis     | ICD-10-CM |
| S90.442A | External constriction, left great toe, initial encounter              | Diagnosis     | ICD-10-CM |
| S90.442D | External constriction, left great toe, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S90.442S | External constriction, left great toe, sequela                        | Diagnosis     | ICD-10-CM |
| S90.443  | External constriction, unspecified great toe                          | Diagnosis     | ICD-10-CM |
| S90.443A | External constriction, unspecified great toe, initial encounter       | Diagnosis     | ICD-10-CM |
| S90.443D | External constriction, unspecified great toe, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S90.443S | External constriction, unspecified great toe, sequela                 | Diagnosis     | ICD-10-CM |
| S90.444  | External constriction, right lesser toe(s)                            | Diagnosis     | ICD-10-CM |
| S90.444A | External constriction, right lesser toe(s), initial encounter         | Diagnosis     | ICD-10-CM |
| S90.444D | External constriction, right lesser toe(s), subsequent encounter      | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S90.444S | External constriction, right lesser toe(s), sequela                       | Diagnosis     | ICD-10-CM |
| S90.445  | External constriction, left lesser toe(s)                                 | Diagnosis     | ICD-10-CM |
| S90.445A | External constriction, left lesser toe(s), initial encounter              | Diagnosis     | ICD-10-CM |
| S90.445D | External constriction, left lesser toe(s), subsequent encounter           | Diagnosis     | ICD-10-CM |
| S90.445S | External constriction, left lesser toe(s), sequela                        | Diagnosis     | ICD-10-CM |
| S90.446  | External constriction, unspecified lesser toe(s)                          | Diagnosis     | ICD-10-CM |
| S90.446A | External constriction, unspecified lesser toe(s), initial encounter       | Diagnosis     | ICD-10-CM |
| S90.446D | External constriction, unspecified lesser toe(s), subsequent encounter    | Diagnosis     | ICD-10-CM |
| S90.446S | External constriction, unspecified lesser toe(s), sequela                 | Diagnosis     | ICD-10-CM |
| S90.45   | Superficial foreign body of toe   | Diagnosis     | ICD-10-CM |
| S90.451  | Superficial foreign body, right great toe                                 | Diagnosis     | ICD-10-CM |
| S90.451A | Superficial foreign body, right great toe, initial encounter              | Diagnosis     | ICD-10-CM |
| S90.451D | Superficial foreign body, right great toe, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S90.451S | Superficial foreign body, right great toe, sequela                        | Diagnosis     | ICD-10-CM |
| S90.452  | Superficial foreign body, left great toe                                  | Diagnosis     | ICD-10-CM |
| S90.452A | Superficial foreign body, left great toe, initial encounter               | Diagnosis     | ICD-10-CM |
| S90.452D | Superficial foreign body, left great toe, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S90.452S | Superficial foreign body, left great toe, sequela                         | Diagnosis     | ICD-10-CM |
| S90.453  | Superficial foreign body, unspecified great toe                           | Diagnosis     | ICD-10-CM |
| S90.453A | Superficial foreign body, unspecified great toe, initial encounter        | Diagnosis     | ICD-10-CM |
| S90.453D | Superficial foreign body, unspecified great toe, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S90.453S | Superficial foreign body, unspecified great toe, sequela                  | Diagnosis     | ICD-10-CM |
| S90.454  | Superficial foreign body, right lesser toe(s)                             | Diagnosis     | ICD-10-CM |
| S90.454A | Superficial foreign body, right lesser toe(s), initial encounter          | Diagnosis     | ICD-10-CM |
| S90.454D | Superficial foreign body, right lesser toe(s), subsequent encounter       | Diagnosis     | ICD-10-CM |
| S90.454S | Superficial foreign body, right lesser toe(s), sequela                    | Diagnosis     | ICD-10-CM |
| S90.455  | Superficial foreign body, left lesser toe(s)                              | Diagnosis     | ICD-10-CM |
| S90.455A | Superficial foreign body, left lesser toe(s), initial encounter           | Diagnosis     | ICD-10-CM |
| S90.455D | Superficial foreign body, left lesser toe(s), subsequent encounter        | Diagnosis     | ICD-10-CM |
| S90.455S | Superficial foreign body, left lesser toe(s), sequela                     | Diagnosis     | ICD-10-CM |
| S90.456  | Superficial foreign body, unspecified lesser toe(s)                       | Diagnosis     | ICD-10-CM |
| S90.456A | Superficial foreign body, unspecified lesser toe(s), initial encounter    | Diagnosis     | ICD-10-CM |
| S90.456D | Superficial foreign body, unspecified lesser toe(s), subsequent encounter | Diagnosis     | ICD-10-CM |
| S90.456S | Superficial foreign body, unspecified lesser toe(s), sequela              | Diagnosis     | ICD-10-CM |
| S90.46   | Insect bite (nonvenomous) of toe  | Diagnosis     | ICD-10-CM |
| S90.461  | Insect bite (nonvenomous), right great toe                                | Diagnosis     | ICD-10-CM |
| S90.461A | Insect bite (nonvenomous), right great toe, initial encounter             | Diagnosis     | ICD-10-CM |
| S90.461D | Insect bite (nonvenomous), right great toe, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S90.461S | Insect bite (nonvenomous), right great toe, sequela                       | Diagnosis     | ICD-10-CM |
| S90.462  | Insect bite (nonvenomous), left great toe                                 | Diagnosis     | ICD-10-CM |
| S90.462A | Insect bite (nonvenomous), left great toe, initial encounter              | Diagnosis     | ICD-10-CM |
| S90.462D | Insect bite (nonvenomous), left great toe, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S90.462S | Insect bite (nonvenomous), left great toe, sequela                        | Diagnosis     | ICD-10-CM |
| S90.463  | Insect bite (nonvenomous), unspecified great toe                          | Diagnosis     | ICD-10-CM |
| S90.463A | Insect bite (nonvenomous), unspecified great toe, initial encounter       | Diagnosis     | ICD-10-CM |
| S90.463D | Insect bite (nonvenomous), unspecified great toe, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S90.463S | Insect bite (nonvenomous), unspecified great toe, sequela                 | Diagnosis     | ICD-10-CM |
| S90.464  | Insect bite (nonvenomous), right lesser toe(s)                            | Diagnosis     | ICD-10-CM |
| S90.464A | Insect bite (nonvenomous), right lesser toe(s), initial encounter         | Diagnosis     | ICD-10-CM |
| S90.464D | Insect bite (nonvenomous), right lesser toe(s), subsequent encounter      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S90.464S | Insect bite (nonvenomous), right lesser toe(s), sequela                    | Diagnosis     | ICD-10-CM |
| S90.465  | Insect bite (nonvenomous), left lesser toe(s)                              | Diagnosis     | ICD-10-CM |
| S90.465A | Insect bite (nonvenomous), left lesser toe(s), initial encounter           | Diagnosis     | ICD-10-CM |
| S90.465D | Insect bite (nonvenomous), left lesser toe(s), subsequent encounter        | Diagnosis     | ICD-10-CM |
| S90.465S | Insect bite (nonvenomous), left lesser toe(s), sequela                     | Diagnosis     | ICD-10-CM |
| S90.466  | Insect bite (nonvenomous), unspecified lesser toe(s)                       | Diagnosis     | ICD-10-CM |
| S90.466A | Insect bite (nonvenomous), unspecified lesser toe(s), initial encounter    | Diagnosis     | ICD-10-CM |
| S90.466D | Insect bite (nonvenomous), unspecified lesser toe(s), subsequent encounter | Diagnosis     | ICD-10-CM |
| S90.466S | Insect bite (nonvenomous), unspecified lesser toe(s), sequela              | Diagnosis     | ICD-10-CM |
| S90.47   | Other superficial bite of toe  | Diagnosis     | ICD-10-CM |
| S90.471  | Other superficial bite of right great toe                                  | Diagnosis     | ICD-10-CM |
| S90.471A | Other superficial bite of right great toe, initial encounter               | Diagnosis     | ICD-10-CM |
| S90.471D | Other superficial bite of right great toe, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S90.471S | Other superficial bite of right great toe, sequela                         | Diagnosis     | ICD-10-CM |
| S90.472  | Other superficial bite of left great toe                                   | Diagnosis     | ICD-10-CM |
| S90.472A | Other superficial bite of left great toe, initial encounter                | Diagnosis     | ICD-10-CM |
| S90.472D | Other superficial bite of left great toe, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S90.472S | Other superficial bite of left great toe, sequela                          | Diagnosis     | ICD-10-CM |
| S90.473  | Other superficial bite of unspecified great toe                            | Diagnosis     | ICD-10-CM |
| S90.473A | Other superficial bite of unspecified great toe, initial encounter         | Diagnosis     | ICD-10-CM |
| S90.473D | Other superficial bite of unspecified great toe, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S90.473S | Other superficial bite of unspecified great toe, sequela                   | Diagnosis     | ICD-10-CM |
| S90.474  | Other superficial bite of right lesser toe(s)                              | Diagnosis     | ICD-10-CM |
| S90.474A | Other superficial bite of right lesser toe(s), initial encounter           | Diagnosis     | ICD-10-CM |
| S90.474D | Other superficial bite of right lesser toe(s), subsequent encounter        | Diagnosis     | ICD-10-CM |
| S90.474S | Other superficial bite of right lesser toe(s), sequela                     | Diagnosis     | ICD-10-CM |
| S90.475  | Other superficial bite of left lesser toe(s)                               | Diagnosis     | ICD-10-CM |
| S90.475A | Other superficial bite of left lesser toe(s), initial encounter            | Diagnosis     | ICD-10-CM |
| S90.475D | Other superficial bite of left lesser toe(s), subsequent encounter         | Diagnosis     | ICD-10-CM |
| S90.475S | Other superficial bite of left lesser toe(s), sequela                      | Diagnosis     | ICD-10-CM |
| S90.476  | Other superficial bite of unspecified lesser toe(s)                        | Diagnosis     | ICD-10-CM |
| S90.476A | Other superficial bite of unspecified lesser toe(s), initial encounter     | Diagnosis     | ICD-10-CM |
| S90.476D | Other superficial bite of unspecified lesser toe(s), subsequent encounter  | Diagnosis     | ICD-10-CM |
| S90.476S | Other superficial bite of unspecified lesser toe(s), sequela               | Diagnosis     | ICD-10-CM |
| S90.5    | Other superficial injuries of ankle  | Diagnosis     | ICD-10-CM |
| S90.51   | Abrasion of ankle  | Diagnosis     | ICD-10-CM |
| S90.511  | Abrasion, right ankle  | Diagnosis     | ICD-10-CM |
| S90.511A | Abrasion, right ankle, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S90.511D | Abrasion, right ankle, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S90.511S | Abrasion, right ankle, sequela   | Diagnosis     | ICD-10-CM |
| S90.512  | Abrasion, left ankle   | Diagnosis     | ICD-10-CM |
| S90.512A | Abrasion, left ankle, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S90.512D | Abrasion, left ankle, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S90.512S | Abrasion, left ankle, sequela  | Diagnosis     | ICD-10-CM |
| S90.519  | Abrasion, unspecified ankle  | Diagnosis     | ICD-10-CM |
| S90.519A | Abrasion, unspecified ankle, initial encounter                             | Diagnosis     | ICD-10-CM |
| S90.519D | Abrasion, unspecified ankle, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S90.519S | Abrasion, unspecified ankle, sequela                                       | Diagnosis     | ICD-10-CM |
| S90.52   | Blister (nonthermal) of ankle  | Diagnosis     | ICD-10-CM |
| S90.521  | Blister (nonthermal), right ankle  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S90.521A | Blister (nonthermal), right ankle, initial encounter               | Diagnosis     | ICD-10-CM |
| S90.521D | Blister (nonthermal), right ankle, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S90.521S | Blister (nonthermal), right ankle, sequela                         | Diagnosis     | ICD-10-CM |
| S90.522  | Blister (nonthermal), left ankle                                   | Diagnosis     | ICD-10-CM |
| S90.522A | Blister (nonthermal), left ankle, initial encounter                | Diagnosis     | ICD-10-CM |
| S90.522D | Blister (nonthermal), left ankle, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S90.522S | Blister (nonthermal), left ankle, sequela                          | Diagnosis     | ICD-10-CM |
| S90.529  | Blister (nonthermal), unspecified ankle                            | Diagnosis     | ICD-10-CM |
| S90.529A | Blister (nonthermal), unspecified ankle, initial encounter         | Diagnosis     | ICD-10-CM |
| S90.529D | Blister (nonthermal), unspecified ankle, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S90.529S | Blister (nonthermal), unspecified ankle, sequela                   | Diagnosis     | ICD-10-CM |
| S90.54   | External constriction of ankle                                     | Diagnosis     | ICD-10-CM |
| S90.541  | External constriction, right ankle                                 | Diagnosis     | ICD-10-CM |
| S90.541A | External constriction, right ankle, initial encounter              | Diagnosis     | ICD-10-CM |
| S90.541D | External constriction, right ankle, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S90.541S | External constriction, right ankle, sequela                        | Diagnosis     | ICD-10-CM |
| S90.542  | External constriction, left ankle                                  | Diagnosis     | ICD-10-CM |
| S90.542A | External constriction, left ankle, initial encounter               | Diagnosis     | ICD-10-CM |
| S90.542D | External constriction, left ankle, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S90.542S | External constriction, left ankle, sequela                         | Diagnosis     | ICD-10-CM |
| S90.549  | External constriction, unspecified ankle                           | Diagnosis     | ICD-10-CM |
| S90.549A | External constriction, unspecified ankle, initial encounter        | Diagnosis     | ICD-10-CM |
| S90.549D | External constriction, unspecified ankle, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S90.549S | External constriction, unspecified ankle, sequela                  | Diagnosis     | ICD-10-CM |
| S90.55   | Superficial foreign body of ankle                                  | Diagnosis     | ICD-10-CM |
| S90.551  | Superficial foreign body, right ankle                              | Diagnosis     | ICD-10-CM |
| S90.551A | Superficial foreign body, right ankle, initial encounter           | Diagnosis     | ICD-10-CM |
| S90.551D | Superficial foreign body, right ankle, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S90.551S | Superficial foreign body, right ankle, sequela                     | Diagnosis     | ICD-10-CM |
| S90.552  | Superficial foreign body, left ankle                               | Diagnosis     | ICD-10-CM |
| S90.552A | Superficial foreign body, left ankle, initial encounter            | Diagnosis     | ICD-10-CM |
| S90.552D | Superficial foreign body, left ankle, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S90.552S | Superficial foreign body, left ankle, sequela                      | Diagnosis     | ICD-10-CM |
| S90.559  | Superficial foreign body, unspecified ankle                        | Diagnosis     | ICD-10-CM |
| S90.559A | Superficial foreign body, unspecified ankle, initial encounter     | Diagnosis     | ICD-10-CM |
| S90.559D | Superficial foreign body, unspecified ankle, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S90.559S | Superficial foreign body, unspecified ankle, sequela               | Diagnosis     | ICD-10-CM |
| S90.56   | Insect bite (nonvenomous) of ankle                                 | Diagnosis     | ICD-10-CM |
| S90.561  | Insect bite (nonvenomous), right ankle                             | Diagnosis     | ICD-10-CM |
| S90.561A | Insect bite (nonvenomous), right ankle, initial encounter          | Diagnosis     | ICD-10-CM |
| S90.561D | Insect bite (nonvenomous), right ankle, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S90.561S | Insect bite (nonvenomous), right ankle, sequela                    | Diagnosis     | ICD-10-CM |
| S90.562  | Insect bite (nonvenomous), left ankle                              | Diagnosis     | ICD-10-CM |
| S90.562A | Insect bite (nonvenomous), left ankle, initial encounter           | Diagnosis     | ICD-10-CM |
| S90.562D | Insect bite (nonvenomous), left ankle, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S90.562S | Insect bite (nonvenomous), left ankle, sequela                     | Diagnosis     | ICD-10-CM |
| S90.569  | Insect bite (nonvenomous), unspecified ankle                       | Diagnosis     | ICD-10-CM |
| S90.569A | Insect bite (nonvenomous), unspecified ankle, initial encounter    | Diagnosis     | ICD-10-CM |
| S90.569D | Insect bite (nonvenomous), unspecified ankle, subsequent encounter | Diagnosis     | ICD-10-CM |
| S90.569S | Insect bite (nonvenomous), unspecified ankle, sequela              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S90.57   | Other superficial bite of ankle  | Diagnosis     | ICD-10-CM |
| S90.571  | Other superficial bite of ankle, right ankle                             | Diagnosis     | ICD-10-CM |
| S90.571A | Other superficial bite of ankle, right ankle, initial encounter          | Diagnosis     | ICD-10-CM |
| S90.571D | Other superficial bite of ankle, right ankle, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S90.571S | Other superficial bite of ankle, right ankle, sequela                    | Diagnosis     | ICD-10-CM |
| S90.572  | Other superficial bite of ankle, left ankle                              | Diagnosis     | ICD-10-CM |
| S90.572A | Other superficial bite of ankle, left ankle, initial encounter           | Diagnosis     | ICD-10-CM |
| S90.572D | Other superficial bite of ankle, left ankle, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S90.572S | Other superficial bite of ankle, left ankle, sequela                     | Diagnosis     | ICD-10-CM |
| S90.579  | Other superficial bite of ankle, unspecified ankle                       | Diagnosis     | ICD-10-CM |
| S90.579A | Other superficial bite of ankle, unspecified ankle, initial encounter    | Diagnosis     | ICD-10-CM |
| S90.579D | Other superficial bite of ankle, unspecified ankle, subsequent encounter | Diagnosis     | ICD-10-CM |
| S90.579S | Other superficial bite of ankle, unspecified ankle, sequela              | Diagnosis     | ICD-10-CM |
| S90.8    | Other superficial injuries of foot                                       | Diagnosis     | ICD-10-CM |
| S90.81   | Abrasion of foot   | Diagnosis     | ICD-10-CM |
| S90.811  | Abrasion, right foot   | Diagnosis     | ICD-10-CM |
| S90.811A | Abrasion, right foot, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S90.811D | Abrasion, right foot, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S90.811S | Abrasion, right foot, sequela  | Diagnosis     | ICD-10-CM |
| S90.812  | Abrasion, left foot  | Diagnosis     | ICD-10-CM |
| S90.812A | Abrasion, left foot, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S90.812D | Abrasion, left foot, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S90.812S | Abrasion, left foot, sequela   | Diagnosis     | ICD-10-CM |
| S90.819  | Abrasion, unspecified foot   | Diagnosis     | ICD-10-CM |
| S90.819A | Abrasion, unspecified foot, initial encounter                            | Diagnosis     | ICD-10-CM |
| S90.819D | Abrasion, unspecified foot, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S90.819S | Abrasion, unspecified foot, sequela                                      | Diagnosis     | ICD-10-CM |
| S90.82   | Blister (nonthermal) of foot   | Diagnosis     | ICD-10-CM |
| S90.821  | Blister (nonthermal), right foot   | Diagnosis     | ICD-10-CM |
| S90.821A | Blister (nonthermal), right foot, initial encounter                      | Diagnosis     | ICD-10-CM |
| S90.821D | Blister (nonthermal), right foot, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S90.821S | Blister (nonthermal), right foot, sequela                                | Diagnosis     | ICD-10-CM |
| S90.822  | Blister (nonthermal), left foot  | Diagnosis     | ICD-10-CM |
| S90.822A | Blister (nonthermal), left foot, initial encounter                       | Diagnosis     | ICD-10-CM |
| S90.822D | Blister (nonthermal), left foot, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S90.822S | Blister (nonthermal), left foot, sequela                                 | Diagnosis     | ICD-10-CM |
| S90.829  | Blister (nonthermal), unspecified foot                                   | Diagnosis     | ICD-10-CM |
| S90.829A | Blister (nonthermal), unspecified foot, initial encounter                | Diagnosis     | ICD-10-CM |
| S90.829D | Blister (nonthermal), unspecified foot, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S90.829S | Blister (nonthermal), unspecified foot, sequela                          | Diagnosis     | ICD-10-CM |
| S90.84   | External constriction of foot  | Diagnosis     | ICD-10-CM |
| S90.841  | External constriction, right foot  | Diagnosis     | ICD-10-CM |
| S90.841A | External constriction, right foot, initial encounter                     | Diagnosis     | ICD-10-CM |
| S90.841D | External constriction, right foot, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S90.841S | External constriction, right foot, sequela                               | Diagnosis     | ICD-10-CM |
| S90.842  | External constriction, left foot   | Diagnosis     | ICD-10-CM |
| S90.842A | External constriction, left foot, initial encounter                      | Diagnosis     | ICD-10-CM |
| S90.842D | External constriction, left foot, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S90.842S | External constriction, left foot, sequela                                | Diagnosis     | ICD-10-CM |
| S90.849  | External constriction, unspecified foot                                  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S90.849A | External constriction, unspecified foot, initial encounter          | Diagnosis     | ICD-10-CM |
| S90.849D | External constriction, unspecified foot, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S90.849S | External constriction, unspecified foot, sequela                    | Diagnosis     | ICD-10-CM |
| S90.85   | Superficial foreign body of foot                                    | Diagnosis     | ICD-10-CM |
| S90.851  | Superficial foreign body, right foot                                | Diagnosis     | ICD-10-CM |
| S90.851A | Superficial foreign body, right foot, initial encounter             | Diagnosis     | ICD-10-CM |
| S90.851D | Superficial foreign body, right foot, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S90.851S | Superficial foreign body, right foot, sequela                       | Diagnosis     | ICD-10-CM |
| S90.852  | Superficial foreign body, left foot                                 | Diagnosis     | ICD-10-CM |
| S90.852A | Superficial foreign body, left foot, initial encounter              | Diagnosis     | ICD-10-CM |
| S90.852D | Superficial foreign body, left foot, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S90.852S | Superficial foreign body, left foot, sequela                        | Diagnosis     | ICD-10-CM |
| S90.859  | Superficial foreign body, unspecified foot                          | Diagnosis     | ICD-10-CM |
| S90.859A | Superficial foreign body, unspecified foot, initial encounter       | Diagnosis     | ICD-10-CM |
| S90.859D | Superficial foreign body, unspecified foot, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S90.859S | Superficial foreign body, unspecified foot, sequela                 | Diagnosis     | ICD-10-CM |
| S90.86   | Insect bite (nonvenomous) of foot                                   | Diagnosis     | ICD-10-CM |
| S90.861  | Insect bite (nonvenomous), right foot                               | Diagnosis     | ICD-10-CM |
| S90.861A | Insect bite (nonvenomous), right foot, initial encounter            | Diagnosis     | ICD-10-CM |
| S90.861D | Insect bite (nonvenomous), right foot, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S90.861S | Insect bite (nonvenomous), right foot, sequela                      | Diagnosis     | ICD-10-CM |
| S90.862  | Insect bite (nonvenomous), left foot                                | Diagnosis     | ICD-10-CM |
| S90.862A | Insect bite (nonvenomous), left foot, initial encounter             | Diagnosis     | ICD-10-CM |
| S90.862D | Insect bite (nonvenomous), left foot, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S90.862S | Insect bite (nonvenomous), left foot, sequela                       | Diagnosis     | ICD-10-CM |
| S90.869  | Insect bite (nonvenomous), unspecified foot                         | Diagnosis     | ICD-10-CM |
| S90.869A | Insect bite (nonvenomous), unspecified foot, initial encounter      | Diagnosis     | ICD-10-CM |
| S90.869D | Insect bite (nonvenomous), unspecified foot, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S90.869S | Insect bite (nonvenomous), unspecified foot, sequela                | Diagnosis     | ICD-10-CM |
| S90.87   | Other superficial bite of foot                                      | Diagnosis     | ICD-10-CM |
| S90.871  | Other superficial bite of right foot                                | Diagnosis     | ICD-10-CM |
| S90.871A | Other superficial bite of right foot, initial encounter             | Diagnosis     | ICD-10-CM |
| S90.871D | Other superficial bite of right foot, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S90.871S | Other superficial bite of right foot, sequela                       | Diagnosis     | ICD-10-CM |
| S90.872  | Other superficial bite of left foot                                 | Diagnosis     | ICD-10-CM |
| S90.872A | Other superficial bite of left foot, initial encounter              | Diagnosis     | ICD-10-CM |
| S90.872D | Other superficial bite of left foot, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S90.872S | Other superficial bite of left foot, sequela                        | Diagnosis     | ICD-10-CM |
| S90.879  | Other superficial bite of unspecified foot                          | Diagnosis     | ICD-10-CM |
| S90.879A | Other superficial bite of unspecified foot, initial encounter       | Diagnosis     | ICD-10-CM |
| S90.879D | Other superficial bite of unspecified foot, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S90.879S | Other superficial bite of unspecified foot, sequela                 | Diagnosis     | ICD-10-CM |
| S90.9    | Unspecified superficial injury of ankle, foot and toe               | Diagnosis     | ICD-10-CM |
| S90.91   | Unspecified superficial injury of ankle                             | Diagnosis     | ICD-10-CM |
| S90.911  | Unspecified superficial injury of right ankle                       | Diagnosis     | ICD-10-CM |
| S90.911A | Unspecified superficial injury of right ankle, initial encounter    | Diagnosis     | ICD-10-CM |
| S90.911D | Unspecified superficial injury of right ankle, subsequent encounter | Diagnosis     | ICD-10-CM |
| S90.911S | Unspecified superficial injury of right ankle, sequela              | Diagnosis     | ICD-10-CM |
| S90.912  | Unspecified superficial injury of left ankle                        | Diagnosis     | ICD-10-CM |
| S90.912A | Unspecified superficial injury of left ankle, initial encounter     | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S90.912D | Unspecified superficial injury of left ankle, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S90.912S | Unspecified superficial injury of left ankle, sequela                             | Diagnosis     | ICD-10-CM |
| S90.919  | Unspecified superficial injury of unspecified ankle                               | Diagnosis     | ICD-10-CM |
| S90.919A | Unspecified superficial injury of unspecified ankle, initial encounter            | Diagnosis     | ICD-10-CM |
| S90.919D | Unspecified superficial injury of unspecified ankle, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S90.919S | Unspecified superficial injury of unspecified ankle, sequela                      | Diagnosis     | ICD-10-CM |
| S90.92   | Unspecified superficial injury of foot  | Diagnosis     | ICD-10-CM |
| S90.921  | Unspecified superficial injury of right foot                                      | Diagnosis     | ICD-10-CM |
| S90.921A | Unspecified superficial injury of right foot, initial encounter                   | Diagnosis     | ICD-10-CM |
| S90.921D | Unspecified superficial injury of right foot, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S90.921S | Unspecified superficial injury of right foot, sequela                             | Diagnosis     | ICD-10-CM |
| S90.922  | Unspecified superficial injury of left foot                                       | Diagnosis     | ICD-10-CM |
| S90.922A | Unspecified superficial injury of left foot, initial encounter                    | Diagnosis     | ICD-10-CM |
| S90.922D | Unspecified superficial injury of left foot, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S90.922S | Unspecified superficial injury of left foot, sequela                              | Diagnosis     | ICD-10-CM |
| S90.929  | Unspecified superficial injury of unspecified foot                                | Diagnosis     | ICD-10-CM |
| S90.929A | Unspecified superficial injury of unspecified foot, initial encounter             | Diagnosis     | ICD-10-CM |
| S90.929D | Unspecified superficial injury of unspecified foot, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S90.929S | Unspecified superficial injury of unspecified foot, sequela                       | Diagnosis     | ICD-10-CM |
| S90.93   | Unspecified superficial injury of toes  | Diagnosis     | ICD-10-CM |
| S90.931  | Unspecified superficial injury of right great toe                                 | Diagnosis     | ICD-10-CM |
| S90.931A | Unspecified superficial injury of right great toe, initial encounter              | Diagnosis     | ICD-10-CM |
| S90.931D | Unspecified superficial injury of right great toe, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S90.931S | Unspecified superficial injury of right great toe, sequela                        | Diagnosis     | ICD-10-CM |
| S90.932  | Unspecified superficial injury of left great toe                                  | Diagnosis     | ICD-10-CM |
| S90.932A | Unspecified superficial injury of left great toe, initial encounter               | Diagnosis     | ICD-10-CM |
| S90.932D | Unspecified superficial injury of left great toe, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S90.932S | Unspecified superficial injury of left great toe, sequela                         | Diagnosis     | ICD-10-CM |
| S90.933  | Unspecified superficial injury of unspecified great toe                           | Diagnosis     | ICD-10-CM |
| S90.933A | Unspecified superficial injury of unspecified great toe, initial encounter        | Diagnosis     | ICD-10-CM |
| S90.933D | Unspecified superficial injury of unspecified great toe, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S90.933S | Unspecified superficial injury of unspecified great toe, sequela                  | Diagnosis     | ICD-10-CM |
| S90.934  | Unspecified superficial injury of right lesser toe(s)                             | Diagnosis     | ICD-10-CM |
| S90.934A | Unspecified superficial injury of right lesser toe(s), initial encounter          | Diagnosis     | ICD-10-CM |
| S90.934D | Unspecified superficial injury of right lesser toe(s), subsequent encounter       | Diagnosis     | ICD-10-CM |
| S90.934S | Unspecified superficial injury of right lesser toe(s), sequela                    | Diagnosis     | ICD-10-CM |
| S90.935  | Unspecified superficial injury of left lesser toe(s)                              | Diagnosis     | ICD-10-CM |
| S90.935A | Unspecified superficial injury of left lesser toe(s), initial encounter           | Diagnosis     | ICD-10-CM |
| S90.935D | Unspecified superficial injury of left lesser toe(s), subsequent encounter        | Diagnosis     | ICD-10-CM |
| S90.935S | Unspecified superficial injury of left lesser toe(s), sequela                     | Diagnosis     | ICD-10-CM |
| S90.936  | Unspecified superficial injury of unspecified lesser toe(s)                       | Diagnosis     | ICD-10-CM |
| S90.936A | Unspecified superficial injury of unspecified lesser toe(s), initial encounter    | Diagnosis     | ICD-10-CM |
| S90.936D | Unspecified superficial injury of unspecified lesser toe(s), subsequent encounter | Diagnosis     | ICD-10-CM |
| S90.936S | Unspecified superficial injury of unspecified lesser toe(s), sequela              | Diagnosis     | ICD-10-CM |
| S91      | Open wound of ankle, foot and toes  | Diagnosis     | ICD-10-CM |
| S91.0    | Open wound of ankle   | Diagnosis     | ICD-10-CM |
| S91.00   | Unspecified open wound of ankle   | Diagnosis     | ICD-10-CM |
| S91.001  | Unspecified open wound, right ankle   | Diagnosis     | ICD-10-CM |
| S91.001A | Unspecified open wound, right ankle, initial encounter                            | Diagnosis     | ICD-10-CM |
| S91.001D | Unspecified open wound, right ankle, subsequent encounter                         | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S91.001S | Unspecified open wound, right ankle, sequela                                 | Diagnosis     | ICD-10-CM |
| S91.002  | Unspecified open wound, left ankle   | Diagnosis     | ICD-10-CM |
| S91.002A | Unspecified open wound, left ankle, initial encounter                        | Diagnosis     | ICD-10-CM |
| S91.002D | Unspecified open wound, left ankle, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S91.002S | Unspecified open wound, left ankle, sequela                                  | Diagnosis     | ICD-10-CM |
| S91.009  | Unspecified open wound, unspecified ankle                                    | Diagnosis     | ICD-10-CM |
| S91.009A | Unspecified open wound, unspecified ankle, initial encounter                 | Diagnosis     | ICD-10-CM |
| S91.009D | Unspecified open wound, unspecified ankle, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S91.009S | Unspecified open wound, unspecified ankle, sequela                           | Diagnosis     | ICD-10-CM |
| S91.01   | Laceration without foreign body of ankle                                     | Diagnosis     | ICD-10-CM |
| S91.011  | Laceration without foreign body, right ankle                                 | Diagnosis     | ICD-10-CM |
| S91.011A | Laceration without foreign body, right ankle, initial encounter              | Diagnosis     | ICD-10-CM |
| S91.011D | Laceration without foreign body, right ankle, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S91.011S | Laceration without foreign body, right ankle, sequela                        | Diagnosis     | ICD-10-CM |
| S91.012  | Laceration without foreign body, left ankle                                  | Diagnosis     | ICD-10-CM |
| S91.012A | Laceration without foreign body, left ankle, initial encounter               | Diagnosis     | ICD-10-CM |
| S91.012D | Laceration without foreign body, left ankle, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S91.012S | Laceration without foreign body, left ankle, sequela                         | Diagnosis     | ICD-10-CM |
| S91.019  | Laceration without foreign body, unspecified ankle                           | Diagnosis     | ICD-10-CM |
| S91.019A | Laceration without foreign body, unspecified ankle, initial encounter        | Diagnosis     | ICD-10-CM |
| S91.019D | Laceration without foreign body, unspecified ankle, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S91.019S | Laceration without foreign body, unspecified ankle, sequela                  | Diagnosis     | ICD-10-CM |
| S91.02   | Laceration with foreign body of ankle  | Diagnosis     | ICD-10-CM |
| S91.021  | Laceration with foreign body, right ankle                                    | Diagnosis     | ICD-10-CM |
| S91.021A | Laceration with foreign body, right ankle, initial encounter                 | Diagnosis     | ICD-10-CM |
| S91.021D | Laceration with foreign body, right ankle, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S91.021S | Laceration with foreign body, right ankle, sequela                           | Diagnosis     | ICD-10-CM |
| S91.022  | Laceration with foreign body, left ankle                                     | Diagnosis     | ICD-10-CM |
| S91.022A | Laceration with foreign body, left ankle, initial encounter                  | Diagnosis     | ICD-10-CM |
| S91.022D | Laceration with foreign body, left ankle, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S91.022S | Laceration with foreign body, left ankle, sequela                            | Diagnosis     | ICD-10-CM |
| S91.029  | Laceration with foreign body, unspecified ankle                              | Diagnosis     | ICD-10-CM |
| S91.029A | Laceration with foreign body, unspecified ankle, initial encounter           | Diagnosis     | ICD-10-CM |
| S91.029D | Laceration with foreign body, unspecified ankle, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S91.029S | Laceration with foreign body, unspecified ankle, sequela                     | Diagnosis     | ICD-10-CM |
| S91.03   | Puncture wound without foreign body of ankle                                 | Diagnosis     | ICD-10-CM |
| S91.031  | Puncture wound without foreign body, right ankle                             | Diagnosis     | ICD-10-CM |
| S91.031A | Puncture wound without foreign body, right ankle, initial encounter          | Diagnosis     | ICD-10-CM |
| S91.031D | Puncture wound without foreign body, right ankle, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S91.031S | Puncture wound without foreign body, right ankle, sequela                    | Diagnosis     | ICD-10-CM |
| S91.032  | Puncture wound without foreign body, left ankle                              | Diagnosis     | ICD-10-CM |
| S91.032A | Puncture wound without foreign body, left ankle, initial encounter           | Diagnosis     | ICD-10-CM |
| S91.032D | Puncture wound without foreign body, left ankle, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S91.032S | Puncture wound without foreign body, left ankle, sequela                     | Diagnosis     | ICD-10-CM |
| S91.039  | Puncture wound without foreign body, unspecified ankle                       | Diagnosis     | ICD-10-CM |
| S91.039A | Puncture wound without foreign body, unspecified ankle, initial encounter    | Diagnosis     | ICD-10-CM |
| S91.039D | Puncture wound without foreign body, unspecified ankle, subsequent encounter | Diagnosis     | ICD-10-CM |
| S91.039S | Puncture wound without foreign body, unspecified ankle, sequela              | Diagnosis     | ICD-10-CM |
| S91.04   | Puncture wound with foreign body of ankle                                    | Diagnosis     | ICD-10-CM |
| S91.041  | Puncture wound with foreign body, right ankle                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S91.041A | Puncture wound with foreign body, right ankle, initial encounter                              | Diagnosis     | ICD-10-CM |
| S91.041D | Puncture wound with foreign body, right ankle, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S91.041S | Puncture wound with foreign body, right ankle, sequela  | Diagnosis     | ICD-10-CM |
| S91.042  | Puncture wound with foreign body, left ankle  | Diagnosis     | ICD-10-CM |
| S91.042A | Puncture wound with foreign body, left ankle, initial encounter                               | Diagnosis     | ICD-10-CM |
| S91.042D | Puncture wound with foreign body, left ankle, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S91.042S | Puncture wound with foreign body, left ankle, sequela   | Diagnosis     | ICD-10-CM |
| S91.049  | Puncture wound with foreign body, unspecified ankle   | Diagnosis     | ICD-10-CM |
| S91.049A | Puncture wound with foreign body, unspecified ankle, initial encounter                        | Diagnosis     | ICD-10-CM |
| S91.049D | Puncture wound with foreign body, unspecified ankle, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S91.049S | Puncture wound with foreign body, unspecified ankle, sequela                                  | Diagnosis     | ICD-10-CM |
| S91.05   | Open bite of ankle  | Diagnosis     | ICD-10-CM |
| S91.051  | Open bite, right ankle  | Diagnosis     | ICD-10-CM |
| S91.051A | Open bite, right ankle, initial encounter   | Diagnosis     | ICD-10-CM |
| S91.051D | Open bite, right ankle, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S91.051S | Open bite, right ankle, sequela   | Diagnosis     | ICD-10-CM |
| S91.052  | Open bite, left ankle   | Diagnosis     | ICD-10-CM |
| S91.052A | Open bite, left ankle, initial encounter  | Diagnosis     | ICD-10-CM |
| S91.052D | Open bite, left ankle, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S91.052S | Open bite, left ankle, sequela  | Diagnosis     | ICD-10-CM |
| S91.059  | Open bite, unspecified ankle  | Diagnosis     | ICD-10-CM |
| S91.059A | Open bite, unspecified ankle, initial encounter   | Diagnosis     | ICD-10-CM |
| S91.059D | Open bite, unspecified ankle, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S91.059S | Open bite, unspecified ankle, sequela   | Diagnosis     | ICD-10-CM |
| S91.1    | Open wound of toe without damage to nail  | Diagnosis     | ICD-10-CM |
| S91.10   | Unspecified open wound of toe without damage to nail  | Diagnosis     | ICD-10-CM |
| S91.101  | Unspecified open wound of right great toe without damage to nail                              | Diagnosis     | ICD-10-CM |
| S91.101A | Unspecified open wound of right great toe without damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S91.101D | Unspecified open wound of right great toe without damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S91.101S | Unspecified open wound of right great toe without damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S91.102  | Unspecified open wound of left great toe without damage to nail                               | Diagnosis     | ICD-10-CM |
| S91.102A | Unspecified open wound of left great toe without damage to nail, initial encounter            | Diagnosis     | ICD-10-CM |
| S91.102D | Unspecified open wound of left great toe without damage to nail, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S91.102S | Unspecified open wound of left great toe without damage to nail, sequela                      | Diagnosis     | ICD-10-CM |
| S91.103  | Unspecified open wound of unspecified great toe without damage to nail                        | Diagnosis     | ICD-10-CM |
| S91.103A | Unspecified open wound of unspecified great toe without damage to nail, initial encounter     | Diagnosis     | ICD-10-CM |
| S91.103D | Unspecified open wound of unspecified great toe without damage to nail, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S91.103S | Unspecified open wound of unspecified great toe without damage to nail, sequela               | Diagnosis     | ICD-10-CM |
| S91.104  | Unspecified open wound of right lesser toe(s) without damage to nail                          | Diagnosis     | ICD-10-CM |
| S91.104A | Unspecified open wound of right lesser toe(s) without damage to nail, initial encounter       | Diagnosis     | ICD-10-CM |
| S91.104D | Unspecified open wound of right lesser toe(s) without damage to nail, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S91.104S | Unspecified open wound of right lesser toe(s) without damage to nail, sequela                 | Diagnosis     | ICD-10-CM |
| S91.105  | Unspecified open wound of left lesser toe(s) without damage to nail                           | Diagnosis     | ICD-10-CM |
| S91.105A | Unspecified open wound of left lesser toe(s) without damage to nail, initial encounter        | Diagnosis     | ICD-10-CM |
| S91.105D | Unspecified open wound of left lesser toe(s) without damage to nail, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S91.105S | Unspecified open wound of left lesser toe(s) without damage to nail, sequela                  | Diagnosis     | ICD-10-CM |
| S91.106  | Unspecified open wound of unspecified lesser toe(s) without damage to nail                    | Diagnosis     | ICD-10-CM |
| S91.106A | Unspecified open wound of unspecified lesser toe(s) without damage to nail, initial encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S91.106D | Unspecified open wound of unspecified lesser toe(s) without damage to nail, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S91.106S | Unspecified open wound of unspecified lesser toe(s) without damage to nail, sequela                       | Diagnosis     | ICD-10-CM |
| S91.109  | Unspecified open wound of unspecified toe(s) without damage to nail                                       | Diagnosis     | ICD-10-CM |
| S91.109A | Unspecified open wound of unspecified toe(s) without damage to nail, initial encounter                    | Diagnosis     | ICD-10-CM |
| S91.109D | Unspecified open wound of unspecified toe(s) without damage to nail, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S91.109S | Unspecified open wound of unspecified toe(s) without damage to nail, sequela                              | Diagnosis     | ICD-10-CM |
| S91.11   | Laceration without foreign body of toe without damage to nail   | Diagnosis     | ICD-10-CM |
| S91.111  | Laceration without foreign body of right great toe without damage to nail                                 | Diagnosis     | ICD-10-CM |
| S91.111A | Laceration without foreign body of right great toe without damage to nail, initial encounter              | Diagnosis     | ICD-10-CM |
| S91.111D | Laceration without foreign body of right great toe without damage to nail, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S91.111S | Laceration without foreign body of right great toe without damage to nail, sequela                        | Diagnosis     | ICD-10-CM |
| S91.112  | Laceration without foreign body of left great toe without damage to nail                                  | Diagnosis     | ICD-10-CM |
| S91.112A | Laceration without foreign body of left great toe without damage to nail, initial encounter               | Diagnosis     | ICD-10-CM |
| S91.112D | Laceration without foreign body of left great toe without damage to nail, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S91.112S | Laceration without foreign body of left great toe without damage to nail, sequela                         | Diagnosis     | ICD-10-CM |
| S91.113  | Laceration without foreign body of unspecified great toe without damage to nail                           | Diagnosis     | ICD-10-CM |
| S91.113A | Laceration without foreign body of unspecified great toe without damage to nail, initial encounter        | Diagnosis     | ICD-10-CM |
| S91.113D | Laceration without foreign body of unspecified great toe without damage to nail, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S91.113S | Laceration without foreign body of unspecified great toe without damage to nail, sequela                  | Diagnosis     | ICD-10-CM |
| S91.114  | Laceration without foreign body of right lesser toe(s) without damage to nail                             | Diagnosis     | ICD-10-CM |
| S91.114A | Laceration without foreign body of right lesser toe(s) without damage to nail, initial encounter          | Diagnosis     | ICD-10-CM |
| S91.114D | Laceration without foreign body of right lesser toe(s) without damage to nail, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S91.114S | Laceration without foreign body of right lesser toe(s) without damage to nail, sequela                    | Diagnosis     | ICD-10-CM |
| S91.115  | Laceration without foreign body of left lesser toe(s) without damage to nail                              | Diagnosis     | ICD-10-CM |
| S91.115A | Laceration without foreign body of left lesser toe(s) without damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S91.115D | Laceration without foreign body of left lesser toe(s) without damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S91.115S | Laceration without foreign body of left lesser toe(s) without damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S91.116  | Laceration without foreign body of unspecified lesser toe(s) without damage to nail                       | Diagnosis     | ICD-10-CM |
| S91.116A | Laceration without foreign body of unspecified lesser toe(s) without damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S91.116D | Laceration without foreign body of unspecified lesser toe(s) without damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S91.116S | Laceration without foreign body of unspecified lesser toe(s) without damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S91.119  | Laceration without foreign body of unspecified toe without damage to nail                                 | Diagnosis     | ICD-10-CM |
| S91.119A | Laceration without foreign body of unspecified toe without damage to nail, initial encounter              | Diagnosis     | ICD-10-CM |
| S91.119D | Laceration without foreign body of unspecified toe without damage to nail, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S91.119S | Laceration without foreign body of unspecified toe without damage to nail, sequela                        | Diagnosis     | ICD-10-CM |
| S91.12   | Laceration with foreign body of toe without damage to nail  | Diagnosis     | ICD-10-CM |
| S91.121  | Laceration with foreign body of right great toe without damage to nail                                    | Diagnosis     | ICD-10-CM |
| S91.121A | Laceration with foreign body of right great toe without damage to nail, initial encounter                 | Diagnosis     | ICD-10-CM |
| S91.121D | Laceration with foreign body of right great toe without damage to nail, subsequent encounter              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S91.121S | Laceration with foreign body of right great toe without damage to nail, sequela                           | Diagnosis     | ICD-10-CM |
| S91.122  | Laceration with foreign body of left great toe without damage to nail                                     | Diagnosis     | ICD-10-CM |
| S91.122A | Laceration with foreign body of left great toe without damage to nail, initial encounter                  | Diagnosis     | ICD-10-CM |
| S91.122D | Laceration with foreign body of left great toe without damage to nail, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S91.122S | Laceration with foreign body of left great toe without damage to nail, sequela                            | Diagnosis     | ICD-10-CM |
| S91.123  | Laceration with foreign body of unspecified great toe without damage to nail                              | Diagnosis     | ICD-10-CM |
| S91.123A | Laceration with foreign body of unspecified great toe without damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S91.123D | Laceration with foreign body of unspecified great toe without damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S91.123S | Laceration with foreign body of unspecified great toe without damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S91.124  | Laceration with foreign body of right lesser toe(s) without damage to nail                                | Diagnosis     | ICD-10-CM |
| S91.124A | Laceration with foreign body of right lesser toe(s) without damage to nail, initial encounter             | Diagnosis     | ICD-10-CM |
| S91.124D | Laceration with foreign body of right lesser toe(s) without damage to nail, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S91.124S | Laceration with foreign body of right lesser toe(s) without damage to nail, sequela                       | Diagnosis     | ICD-10-CM |
| S91.125  | Laceration with foreign body of left lesser toe(s) without damage to nail                                 | Diagnosis     | ICD-10-CM |
| S91.125A | Laceration with foreign body of left lesser toe(s) without damage to nail, initial encounter              | Diagnosis     | ICD-10-CM |
| S91.125D | Laceration with foreign body of left lesser toe(s) without damage to nail, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S91.125S | Laceration with foreign body of left lesser toe(s) without damage to nail, sequela                        | Diagnosis     | ICD-10-CM |
| S91.126  | Laceration with foreign body of unspecified lesser toe(s) without damage to nail                          | Diagnosis     | ICD-10-CM |
| S91.126A | Laceration with foreign body of unspecified lesser toe(s) without damage to nail, initial encounter       | Diagnosis     | ICD-10-CM |
| S91.126D | Laceration with foreign body of unspecified lesser toe(s) without damage to nail, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S91.126S | Laceration with foreign body of unspecified lesser toe(s) without damage to nail, sequela                 | Diagnosis     | ICD-10-CM |
| S91.129  | Laceration with foreign body of unspecified toe(s) without damage to nail                                 | Diagnosis     | ICD-10-CM |
| S91.129A | Laceration with foreign body of unspecified toe(s) without damage to nail, initial encounter              | Diagnosis     | ICD-10-CM |
| S91.129D | Laceration with foreign body of unspecified toe(s) without damage to nail, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S91.129S | Laceration with foreign body of unspecified toe(s) without damage to nail, sequela                        | Diagnosis     | ICD-10-CM |
| S91.13   | Puncture wound without foreign body of toe without damage to nail   | Diagnosis     | ICD-10-CM |
| S91.131  | Puncture wound without foreign body of right great toe without damage to nail                             | Diagnosis     | ICD-10-CM |
| S91.131A | Puncture wound without foreign body of right great toe without damage to nail, initial encounter          | Diagnosis     | ICD-10-CM |
| S91.131D | Puncture wound without foreign body of right great toe without damage to nail, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S91.131S | Puncture wound without foreign body of right great toe without damage to nail, sequela                    | Diagnosis     | ICD-10-CM |
| S91.132  | Puncture wound without foreign body of left great toe without damage to nail                              | Diagnosis     | ICD-10-CM |
| S91.132A | Puncture wound without foreign body of left great toe without damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S91.132D | Puncture wound without foreign body of left great toe without damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S91.132S | Puncture wound without foreign body of left great toe without damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S91.133  | Puncture wound without foreign body of unspecified great toe without damage to nail                       | Diagnosis     | ICD-10-CM |
| S91.133A | Puncture wound without foreign body of unspecified great toe without damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S91.133D | Puncture wound without foreign body of unspecified great toe without damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S91.133S | Puncture wound without foreign body of unspecified great toe without damage to nail, sequela                  | Diagnosis     | ICD-10-CM |
| S91.134  | Puncture wound without foreign body of right lesser toe(s) without damage to nail                             | Diagnosis     | ICD-10-CM |
| S91.134A | Puncture wound without foreign body of right lesser toe(s) without damage to nail, initial encounter          | Diagnosis     | ICD-10-CM |
| S91.134D | Puncture wound without foreign body of right lesser toe(s) without damage to nail, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S91.134S | Puncture wound without foreign body of right lesser toe(s) without damage to nail, sequela                    | Diagnosis     | ICD-10-CM |
| S91.135  | Puncture wound without foreign body of left lesser toe(s) without damage to nail                              | Diagnosis     | ICD-10-CM |
| S91.135A | Puncture wound without foreign body of left lesser toe(s) without damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S91.135D | Puncture wound without foreign body of left lesser toe(s) without damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S91.135S | Puncture wound without foreign body of left lesser toe(s) without damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S91.136  | Puncture wound without foreign body of unspecified lesser toe(s) without damage to nail                       | Diagnosis     | ICD-10-CM |
| S91.136A | Puncture wound without foreign body of unspecified lesser toe(s) without damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S91.136D | Puncture wound without foreign body of unspecified lesser toe(s) without damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S91.136S | Puncture wound without foreign body of unspecified lesser toe(s) without damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S91.139  | Puncture wound without foreign body of unspecified toe(s) without damage to nail                              | Diagnosis     | ICD-10-CM |
| S91.139A | Puncture wound without foreign body of unspecified toe(s) without damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S91.139D | Puncture wound without foreign body of unspecified toe(s) without damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S91.139S | Puncture wound without foreign body of unspecified toe(s) without damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S91.14   | Puncture wound with foreign body of toe without damage to nail  | Diagnosis     | ICD-10-CM |
| S91.141  | Puncture wound with foreign body of right great toe without damage to nail                                    | Diagnosis     | ICD-10-CM |
| S91.141A | Puncture wound with foreign body of right great toe without damage to nail, initial encounter                 | Diagnosis     | ICD-10-CM |
| S91.141D | Puncture wound with foreign body of right great toe without damage to nail, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S91.141S | Puncture wound with foreign body of right great toe without damage to nail, sequela                           | Diagnosis     | ICD-10-CM |
| S91.142  | Puncture wound with foreign body of left great toe without damage to nail                                     | Diagnosis     | ICD-10-CM |
| S91.142A | Puncture wound with foreign body of left great toe without damage to nail, initial encounter                  | Diagnosis     | ICD-10-CM |
| S91.142D | Puncture wound with foreign body of left great toe without damage to nail, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S91.142S | Puncture wound with foreign body of left great toe without damage to nail, sequela                            | Diagnosis     | ICD-10-CM |
| S91.143  | Puncture wound with foreign body of unspecified great toe without damage to nail                              | Diagnosis     | ICD-10-CM |
| S91.143A | Puncture wound with foreign body of unspecified great toe without damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S91.143D | Puncture wound with foreign body of unspecified great toe without damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S91.143S | Puncture wound with foreign body of unspecified great toe without damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S91.144  | Puncture wound with foreign body of right lesser toe(s) without damage to nail                                | Diagnosis     | ICD-10-CM |
| S91.144A | Puncture wound with foreign body of right lesser toe(s) without damage to nail, initial encounter             | Diagnosis     | ICD-10-CM |
| S91.144D | Puncture wound with foreign body of right lesser toe(s) without damage to nail, subsequent encounter          | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S91.144S | Puncture wound with foreign body of right lesser toe(s) without damage to nail, sequela                    | Diagnosis     | ICD-10-CM |
| S91.145  | Puncture wound with foreign body of left lesser toe(s) without damage to nail                              | Diagnosis     | ICD-10-CM |
| S91.145A | Puncture wound with foreign body of left lesser toe(s) without damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S91.145D | Puncture wound with foreign body of left lesser toe(s) without damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S91.145S | Puncture wound with foreign body of left lesser toe(s) without damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S91.146  | Puncture wound with foreign body of unspecified lesser toe(s) without damage to nail                       | Diagnosis     | ICD-10-CM |
| S91.146A | Puncture wound with foreign body of unspecified lesser toe(s) without damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S91.146D | Puncture wound with foreign body of unspecified lesser toe(s) without damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S91.146S | Puncture wound with foreign body of unspecified lesser toe(s) without damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S91.149  | Puncture wound with foreign body of unspecified toe(s) without damage to nail                              | Diagnosis     | ICD-10-CM |
| S91.149A | Puncture wound with foreign body of unspecified toe(s) without damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S91.149D | Puncture wound with foreign body of unspecified toe(s) without damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S91.149S | Puncture wound with foreign body of unspecified toe(s) without damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S91.15   | Open bite of toe without damage to nail  | Diagnosis     | ICD-10-CM |
| S91.151  | Open bite of right great toe without damage to nail  | Diagnosis     | ICD-10-CM |
| S91.151A | Open bite of right great toe without damage to nail, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S91.151D | Open bite of right great toe without damage to nail, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S91.151S | Open bite of right great toe without damage to nail, sequela   | Diagnosis     | ICD-10-CM |
| S91.152  | Open bite of left great toe without damage to nail   | Diagnosis     | ICD-10-CM |
| S91.152A | Open bite of left great toe without damage to nail, initial encounter                                      | Diagnosis     | ICD-10-CM |
| S91.152D | Open bite of left great toe without damage to nail, subsequent encounter                                   | Diagnosis     | ICD-10-CM |
| S91.152S | Open bite of left great toe without damage to nail, sequela  | Diagnosis     | ICD-10-CM |
| S91.153  | Open bite of unspecified great toe without damage to nail  | Diagnosis     | ICD-10-CM |
| S91.153A | Open bite of unspecified great toe without damage to nail, initial encounter                               | Diagnosis     | ICD-10-CM |
| S91.153D | Open bite of unspecified great toe without damage to nail, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S91.153S | Open bite of unspecified great toe without damage to nail, sequela   | Diagnosis     | ICD-10-CM |
| S91.154  | Open bite of right lesser toe(s) without damage to nail  | Diagnosis     | ICD-10-CM |
| S91.154A | Open bite of right lesser toe(s) without damage to nail, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S91.154D | Open bite of right lesser toe(s) without damage to nail, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S91.154S | Open bite of right lesser toe(s) without damage to nail, sequela   | Diagnosis     | ICD-10-CM |
| S91.155  | Open bite of left lesser toe(s) without damage to nail   | Diagnosis     | ICD-10-CM |
| S91.155A | Open bite of left lesser toe(s) without damage to nail, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S91.155D | Open bite of left lesser toe(s) without damage to nail, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S91.155S | Open bite of left lesser toe(s) without damage to nail, sequela  | Diagnosis     | ICD-10-CM |
| S91.156  | Open bite of unspecified lesser toe(s) without damage to nail  | Diagnosis     | ICD-10-CM |
| S91.156A | Open bite of unspecified lesser toe(s) without damage to nail, initial encounter                           | Diagnosis     | ICD-10-CM |
| S91.156D | Open bite of unspecified lesser toe(s) without damage to nail, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S91.156S | Open bite of unspecified lesser toe(s) without damage to nail, sequela                                     | Diagnosis     | ICD-10-CM |
| S91.159  | Open bite of unspecified toe(s) without damage to nail   | Diagnosis     | ICD-10-CM |
| S91.159A | Open bite of unspecified toe(s) without damage to nail, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S91.159D | Open bite of unspecified toe(s) without damage to nail, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S91.159S | Open bite of unspecified toe(s) without damage to nail, sequela  | Diagnosis     | ICD-10-CM |
| S91.2    | Open wound of toe with damage to nail  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S91.20   | Unspecified open wound of toe with damage to nail  | Diagnosis     | ICD-10-CM |
| S91.201  | Unspecified open wound of right great toe with damage to nail                                      | Diagnosis     | ICD-10-CM |
| S91.201A | Unspecified open wound of right great toe with damage to nail, initial encounter                   | Diagnosis     | ICD-10-CM |
| S91.201D | Unspecified open wound of right great toe with damage to nail, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S91.201S | Unspecified open wound of right great toe with damage to nail, sequela                             | Diagnosis     | ICD-10-CM |
| S91.202  | Unspecified open wound of left great toe with damage to nail                                       | Diagnosis     | ICD-10-CM |
| S91.202A | Unspecified open wound of left great toe with damage to nail, initial encounter                    | Diagnosis     | ICD-10-CM |
| S91.202D | Unspecified open wound of left great toe with damage to nail, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S91.202S | Unspecified open wound of left great toe with damage to nail, sequela                              | Diagnosis     | ICD-10-CM |
| S91.203  | Unspecified open wound of unspecified great toe with damage to nail                                | Diagnosis     | ICD-10-CM |
| S91.203A | Unspecified open wound of unspecified great toe with damage to nail, initial encounter             | Diagnosis     | ICD-10-CM |
| S91.203D | Unspecified open wound of unspecified great toe with damage to nail, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S91.203S | Unspecified open wound of unspecified great toe with damage to nail, sequela                       | Diagnosis     | ICD-10-CM |
| S91.204  | Unspecified open wound of right lesser toe(s) with damage to nail                                  | Diagnosis     | ICD-10-CM |
| S91.204A | Unspecified open wound of right lesser toe(s) with damage to nail, initial encounter               | Diagnosis     | ICD-10-CM |
| S91.204D | Unspecified open wound of right lesser toe(s) with damage to nail, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S91.204S | Unspecified open wound of right lesser toe(s) with damage to nail, sequela                         | Diagnosis     | ICD-10-CM |
| S91.205  | Unspecified open wound of left lesser toe(s) with damage to nail                                   | Diagnosis     | ICD-10-CM |
| S91.205A | Unspecified open wound of left lesser toe(s) with damage to nail, initial encounter                | Diagnosis     | ICD-10-CM |
| S91.205D | Unspecified open wound of left lesser toe(s) with damage to nail, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S91.205S | Unspecified open wound of left lesser toe(s) with damage to nail, sequela                          | Diagnosis     | ICD-10-CM |
| S91.206  | Unspecified open wound of unspecified lesser toe(s) with damage to nail                            | Diagnosis     | ICD-10-CM |
| S91.206A | Unspecified open wound of unspecified lesser toe(s) with damage to nail, initial encounter         | Diagnosis     | ICD-10-CM |
| S91.206D | Unspecified open wound of unspecified lesser toe(s) with damage to nail, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S91.206S | Unspecified open wound of unspecified lesser toe(s) with damage to nail, sequela                   | Diagnosis     | ICD-10-CM |
| S91.209  | Unspecified open wound of unspecified toe(s) with damage to nail                                   | Diagnosis     | ICD-10-CM |
| S91.209A | Unspecified open wound of unspecified toe(s) with damage to nail, initial encounter                | Diagnosis     | ICD-10-CM |
| S91.209D | Unspecified open wound of unspecified toe(s) with damage to nail, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S91.209S | Unspecified open wound of unspecified toe(s) with damage to nail, sequela                          | Diagnosis     | ICD-10-CM |
| S91.21   | Laceration without foreign body of toe with damage to nail   | Diagnosis     | ICD-10-CM |
| S91.211  | Laceration without foreign body of right great toe with damage to nail                             | Diagnosis     | ICD-10-CM |
| S91.211A | Laceration without foreign body of right great toe with damage to nail, initial encounter          | Diagnosis     | ICD-10-CM |
| S91.211D | Laceration without foreign body of right great toe with damage to nail, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S91.211S | Laceration without foreign body of right great toe with damage to nail, sequela                    | Diagnosis     | ICD-10-CM |
| S91.212  | Laceration without foreign body of left great toe with damage to nail                              | Diagnosis     | ICD-10-CM |
| S91.212A | Laceration without foreign body of left great toe with damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S91.212D | Laceration without foreign body of left great toe with damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S91.212S | Laceration without foreign body of left great toe with damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S91.213  | Laceration without foreign body of unspecified great toe with damage to nail                       | Diagnosis     | ICD-10-CM |
| S91.213A | Laceration without foreign body of unspecified great toe with damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S91.213D | Laceration without foreign body of unspecified great toe with damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S91.213S | Laceration without foreign body of unspecified great toe with damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S91.214  | Laceration without foreign body of right lesser toe(s) with damage to nail                         | Diagnosis     | ICD-10-CM |
| S91.214A | Laceration without foreign body of right lesser toe(s) with damage to nail, initial encounter      | Diagnosis     | ICD-10-CM |
| S91.214D | Laceration without foreign body of right lesser toe(s) with damage to nail, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S91.214S | Laceration without foreign body of right lesser toe(s) with damage to nail, sequela                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S91.215  | Laceration without foreign body of left lesser toe(s) with damage to nail                              | Diagnosis     | ICD-10-CM |
| S91.215A | Laceration without foreign body of left lesser toe(s) with damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S91.215D | Laceration without foreign body of left lesser toe(s) with damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S91.215S | Laceration without foreign body of left lesser toe(s) with damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S91.216  | Laceration without foreign body of unspecified lesser toe(s) with damage to nail                       | Diagnosis     | ICD-10-CM |
| S91.216A | Laceration without foreign body of unspecified lesser toe(s) with damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S91.216D | Laceration without foreign body of unspecified lesser toe(s) with damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S91.216S | Laceration without foreign body of unspecified lesser toe(s) with damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S91.219  | Laceration without foreign body of unspecified toe(s) with damage to nail                              | Diagnosis     | ICD-10-CM |
| S91.219A | Laceration without foreign body of unspecified toe(s) with damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S91.219D | Laceration without foreign body of unspecified toe(s) with damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S91.219S | Laceration without foreign body of unspecified toe(s) with damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S91.22   | Laceration with foreign body of toe with damage to nail  | Diagnosis     | ICD-10-CM |
| S91.221  | Laceration with foreign body of right great toe with damage to nail                                    | Diagnosis     | ICD-10-CM |
| S91.221A | Laceration with foreign body of right great toe with damage to nail, initial encounter                 | Diagnosis     | ICD-10-CM |
| S91.221D | Laceration with foreign body of right great toe with damage to nail, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S91.221S | Laceration with foreign body of right great toe with damage to nail, sequela                           | Diagnosis     | ICD-10-CM |
| S91.222  | Laceration with foreign body of left great toe with damage to nail                                     | Diagnosis     | ICD-10-CM |
| S91.222A | Laceration with foreign body of left great toe with damage to nail, initial encounter                  | Diagnosis     | ICD-10-CM |
| S91.222D | Laceration with foreign body of left great toe with damage to nail, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S91.222S | Laceration with foreign body of left great toe with damage to nail, sequela                            | Diagnosis     | ICD-10-CM |
| S91.223  | Laceration with foreign body of unspecified great toe with damage to nail                              | Diagnosis     | ICD-10-CM |
| S91.223A | Laceration with foreign body of unspecified great toe with damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S91.223D | Laceration with foreign body of unspecified great toe with damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S91.223S | Laceration with foreign body of unspecified great toe with damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S91.224  | Laceration with foreign body of right lesser toe(s) with damage to nail                                | Diagnosis     | ICD-10-CM |
| S91.224A | Laceration with foreign body of right lesser toe(s) with damage to nail, initial encounter             | Diagnosis     | ICD-10-CM |
| S91.224D | Laceration with foreign body of right lesser toe(s) with damage to nail, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S91.224S | Laceration with foreign body of right lesser toe(s) with damage to nail, sequela                       | Diagnosis     | ICD-10-CM |
| S91.225  | Laceration with foreign body of left lesser toe(s) with damage to nail                                 | Diagnosis     | ICD-10-CM |
| S91.225A | Laceration with foreign body of left lesser toe(s) with damage to nail, initial encounter              | Diagnosis     | ICD-10-CM |
| S91.225D | Laceration with foreign body of left lesser toe(s) with damage to nail, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S91.225S | Laceration with foreign body of left lesser toe(s) with damage to nail, sequela                        | Diagnosis     | ICD-10-CM |
| S91.226  | Laceration with foreign body of unspecified lesser toe(s) with damage to nail                          | Diagnosis     | ICD-10-CM |
| S91.226A | Laceration with foreign body of unspecified lesser toe(s) with damage to nail, initial encounter       | Diagnosis     | ICD-10-CM |
| S91.226D | Laceration with foreign body of unspecified lesser toe(s) with damage to nail, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S91.226S | Laceration with foreign body of unspecified lesser toe(s) with damage to nail, sequela                 | Diagnosis     | ICD-10-CM |
| S91.229  | Laceration with foreign body of unspecified toe(s) with damage to nail                                 | Diagnosis     | ICD-10-CM |
| S91.229A | Laceration with foreign body of unspecified toe(s) with damage to nail, initial encounter              | Diagnosis     | ICD-10-CM |
| S91.229D | Laceration with foreign body of unspecified toe(s) with damage to nail, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S91.229S | Laceration with foreign body of unspecified toe(s) with damage to nail, sequela                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S91.23   | Puncture wound without foreign body of toe with damage to nail   | Diagnosis     | ICD-10-CM |
| S91.231  | Puncture wound without foreign body of right great toe with damage to nail                                 | Diagnosis     | ICD-10-CM |
| S91.231A | Puncture wound without foreign body of right great toe with damage to nail, initial encounter              | Diagnosis     | ICD-10-CM |
| S91.231D | Puncture wound without foreign body of right great toe with damage to nail, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S91.231S | Puncture wound without foreign body of right great toe with damage to nail, sequela                        | Diagnosis     | ICD-10-CM |
| S91.232  | Puncture wound without foreign body of left great toe with damage to nail                                  | Diagnosis     | ICD-10-CM |
| S91.232A | Puncture wound without foreign body of left great toe with damage to nail, initial encounter               | Diagnosis     | ICD-10-CM |
| S91.232D | Puncture wound without foreign body of left great toe with damage to nail, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S91.232S | Puncture wound without foreign body of left great toe with damage to nail, sequela                         | Diagnosis     | ICD-10-CM |
| S91.233  | Puncture wound without foreign body of unspecified great toe with damage to nail                           | Diagnosis     | ICD-10-CM |
| S91.233A | Puncture wound without foreign body of unspecified great toe with damage to nail, initial encounter        | Diagnosis     | ICD-10-CM |
| S91.233D | Puncture wound without foreign body of unspecified great toe with damage to nail, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S91.233S | Puncture wound without foreign body of unspecified great toe with damage to nail, sequela                  | Diagnosis     | ICD-10-CM |
| S91.234  | Puncture wound without foreign body of right lesser toe(s) with damage to nail                             | Diagnosis     | ICD-10-CM |
| S91.234A | Puncture wound without foreign body of right lesser toe(s) with damage to nail, initial encounter          | Diagnosis     | ICD-10-CM |
| S91.234D | Puncture wound without foreign body of right lesser toe(s) with damage to nail, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S91.234S | Puncture wound without foreign body of right lesser toe(s) with damage to nail, sequela                    | Diagnosis     | ICD-10-CM |
| S91.235  | Puncture wound without foreign body of left lesser toe(s) with damage to nail                              | Diagnosis     | ICD-10-CM |
| S91.235A | Puncture wound without foreign body of left lesser toe(s) with damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S91.235D | Puncture wound without foreign body of left lesser toe(s) with damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S91.235S | Puncture wound without foreign body of left lesser toe(s) with damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S91.236  | Puncture wound without foreign body of unspecified lesser toe(s) with damage to nail                       | Diagnosis     | ICD-10-CM |
| S91.236A | Puncture wound without foreign body of unspecified lesser toe(s) with damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S91.236D | Puncture wound without foreign body of unspecified lesser toe(s) with damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S91.236S | Puncture wound without foreign body of unspecified lesser toe(s) with damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S91.239  | Puncture wound without foreign body of unspecified toe(s) with damage to nail                              | Diagnosis     | ICD-10-CM |
| S91.239A | Puncture wound without foreign body of unspecified toe(s) with damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S91.239D | Puncture wound without foreign body of unspecified toe(s) with damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S91.239S | Puncture wound without foreign body of unspecified toe(s) with damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S91.24   | Puncture wound with foreign body of toe with damage to nail  | Diagnosis     | ICD-10-CM |
| S91.241  | Puncture wound with foreign body of right great toe with damage to nail                                    | Diagnosis     | ICD-10-CM |
| S91.241A | Puncture wound with foreign body of right great toe with damage to nail, initial encounter                 | Diagnosis     | ICD-10-CM |
| S91.241D | Puncture wound with foreign body of right great toe with damage to nail, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S91.241S | Puncture wound with foreign body of right great toe with damage to nail, sequela                           | Diagnosis     | ICD-10-CM |
| S91.242  | Puncture wound with foreign body of left great toe with damage to nail                                     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S91.242A | Puncture wound with foreign body of left great toe with damage to nail, initial encounter               | Diagnosis     | ICD-10-CM |
| S91.242D | Puncture wound with foreign body of left great toe with damage to nail, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S91.242S | Puncture wound with foreign body of left great toe with damage to nail, sequela                         | Diagnosis     | ICD-10-CM |
| S91.243  | Puncture wound with foreign body of unspecified great toe with damage to nail                           | Diagnosis     | ICD-10-CM |
| S91.243A | Puncture wound with foreign body of unspecified great toe with damage to nail, initial encounter        | Diagnosis     | ICD-10-CM |
| S91.243D | Puncture wound with foreign body of unspecified great toe with damage to nail, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S91.243S | Puncture wound with foreign body of unspecified great toe with damage to nail, sequela                  | Diagnosis     | ICD-10-CM |
| S91.244  | Puncture wound with foreign body of right lesser toe(s) with damage to nail                             | Diagnosis     | ICD-10-CM |
| S91.244A | Puncture wound with foreign body of right lesser toe(s) with damage to nail, initial encounter          | Diagnosis     | ICD-10-CM |
| S91.244D | Puncture wound with foreign body of right lesser toe(s) with damage to nail, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S91.244S | Puncture wound with foreign body of right lesser toe(s) with damage to nail, sequela                    | Diagnosis     | ICD-10-CM |
| S91.245  | Puncture wound with foreign body of left lesser toe(s) with damage to nail                              | Diagnosis     | ICD-10-CM |
| S91.245A | Puncture wound with foreign body of left lesser toe(s) with damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S91.245D | Puncture wound with foreign body of left lesser toe(s) with damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S91.245S | Puncture wound with foreign body of left lesser toe(s) with damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S91.246  | Puncture wound with foreign body of unspecified lesser toe(s) with damage to nail                       | Diagnosis     | ICD-10-CM |
| S91.246A | Puncture wound with foreign body of unspecified lesser toe(s) with damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S91.246D | Puncture wound with foreign body of unspecified lesser toe(s) with damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S91.246S | Puncture wound with foreign body of unspecified lesser toe(s) with damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S91.249  | Puncture wound with foreign body of unspecified toe(s) with damage to nail                              | Diagnosis     | ICD-10-CM |
| S91.249A | Puncture wound with foreign body of unspecified toe(s) with damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S91.249D | Puncture wound with foreign body of unspecified toe(s) with damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S91.249S | Puncture wound with foreign body of unspecified toe(s) with damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S91.25   | Open bite of toe with damage to nail  | Diagnosis     | ICD-10-CM |
| S91.251  | Open bite of right great toe with damage to nail  | Diagnosis     | ICD-10-CM |
| S91.251A | Open bite of right great toe with damage to nail, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S91.251D | Open bite of right great toe with damage to nail, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S91.251S | Open bite of right great toe with damage to nail, sequela   | Diagnosis     | ICD-10-CM |
| S91.252  | Open bite of left great toe with damage to nail   | Diagnosis     | ICD-10-CM |
| S91.252A | Open bite of left great toe with damage to nail, initial encounter                                      | Diagnosis     | ICD-10-CM |
| S91.252D | Open bite of left great toe with damage to nail, subsequent encounter                                   | Diagnosis     | ICD-10-CM |
| S91.252S | Open bite of left great toe with damage to nail, sequela  | Diagnosis     | ICD-10-CM |
| S91.253  | Open bite of unspecified great toe with damage to nail  | Diagnosis     | ICD-10-CM |
| S91.253A | Open bite of unspecified great toe with damage to nail, initial encounter                               | Diagnosis     | ICD-10-CM |
| S91.253D | Open bite of unspecified great toe with damage to nail, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S91.253S | Open bite of unspecified great toe with damage to nail, sequela   | Diagnosis     | ICD-10-CM |
| S91.254  | Open bite of right lesser toe(s) with damage to nail  | Diagnosis     | ICD-10-CM |
| S91.254A | Open bite of right lesser toe(s) with damage to nail, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S91.254D | Open bite of right lesser toe(s) with damage to nail, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S91.254S | Open bite of right lesser toe(s) with damage to nail, sequela   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S91.255  | Open bite of left lesser toe(s) with damage to nail                              | Diagnosis     | ICD-10-CM |
| S91.255A | Open bite of left lesser toe(s) with damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S91.255D | Open bite of left lesser toe(s) with damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S91.255S | Open bite of left lesser toe(s) with damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S91.256  | Open bite of unspecified lesser toe(s) with damage to nail                       | Diagnosis     | ICD-10-CM |
| S91.256A | Open bite of unspecified lesser toe(s) with damage to nail, initial encounter    | Diagnosis     | ICD-10-CM |
| S91.256D | Open bite of unspecified lesser toe(s) with damage to nail, subsequent encounter | Diagnosis     | ICD-10-CM |
| S91.256S | Open bite of unspecified lesser toe(s) with damage to nail, sequela              | Diagnosis     | ICD-10-CM |
| S91.259  | Open bite of unspecified toe(s) with damage to nail                              | Diagnosis     | ICD-10-CM |
| S91.259A | Open bite of unspecified toe(s) with damage to nail, initial encounter           | Diagnosis     | ICD-10-CM |
| S91.259D | Open bite of unspecified toe(s) with damage to nail, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S91.259S | Open bite of unspecified toe(s) with damage to nail, sequela                     | Diagnosis     | ICD-10-CM |
| S91.3    | Open wound of foot   | Diagnosis     | ICD-10-CM |
| S91.30   | Unspecified open wound of foot   | Diagnosis     | ICD-10-CM |
| S91.301  | Unspecified open wound, right foot   | Diagnosis     | ICD-10-CM |
| S91.301A | Unspecified open wound, right foot, initial encounter                            | Diagnosis     | ICD-10-CM |
| S91.301D | Unspecified open wound, right foot, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| S91.301S | Unspecified open wound, right foot, sequela                                      | Diagnosis     | ICD-10-CM |
| S91.302  | Unspecified open wound, left foot  | Diagnosis     | ICD-10-CM |
| S91.302A | Unspecified open wound, left foot, initial encounter                             | Diagnosis     | ICD-10-CM |
| S91.302D | Unspecified open wound, left foot, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S91.302S | Unspecified open wound, left foot, sequela                                       | Diagnosis     | ICD-10-CM |
| S91.309  | Unspecified open wound, unspecified foot   | Diagnosis     | ICD-10-CM |
| S91.309A | Unspecified open wound, unspecified foot, initial encounter                      | Diagnosis     | ICD-10-CM |
| S91.309D | Unspecified open wound, unspecified foot, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S91.309S | Unspecified open wound, unspecified foot, sequela                                | Diagnosis     | ICD-10-CM |
| S91.31   | Laceration without foreign body of foot  | Diagnosis     | ICD-10-CM |
| S91.311  | Laceration without foreign body, right foot                                      | Diagnosis     | ICD-10-CM |
| S91.311A | Laceration without foreign body, right foot, initial encounter                   | Diagnosis     | ICD-10-CM |
| S91.311D | Laceration without foreign body, right foot, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S91.311S | Laceration without foreign body, right foot, sequela                             | Diagnosis     | ICD-10-CM |
| S91.312  | Laceration without foreign body, left foot                                       | Diagnosis     | ICD-10-CM |
| S91.312A | Laceration without foreign body, left foot, initial encounter                    | Diagnosis     | ICD-10-CM |
| S91.312D | Laceration without foreign body, left foot, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S91.312S | Laceration without foreign body, left foot, sequela                              | Diagnosis     | ICD-10-CM |
| S91.319  | Laceration without foreign body, unspecified foot                                | Diagnosis     | ICD-10-CM |
| S91.319A | Laceration without foreign body, unspecified foot, initial encounter             | Diagnosis     | ICD-10-CM |
| S91.319D | Laceration without foreign body, unspecified foot, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S91.319S | Laceration without foreign body, unspecified foot, sequela                       | Diagnosis     | ICD-10-CM |
| S91.32   | Laceration with foreign body of foot   | Diagnosis     | ICD-10-CM |
| S91.321  | Laceration with foreign body, right foot   | Diagnosis     | ICD-10-CM |
| S91.321A | Laceration with foreign body, right foot, initial encounter                      | Diagnosis     | ICD-10-CM |
| S91.321D | Laceration with foreign body, right foot, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S91.321S | Laceration with foreign body, right foot, sequela                                | Diagnosis     | ICD-10-CM |
| S91.322  | Laceration with foreign body, left foot  | Diagnosis     | ICD-10-CM |
| S91.322A | Laceration with foreign body, left foot, initial encounter                       | Diagnosis     | ICD-10-CM |
| S91.322D | Laceration with foreign body, left foot, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S91.322S | Laceration with foreign body, left foot, sequela                                 | Diagnosis     | ICD-10-CM |
| S91.329  | Laceration with foreign body, unspecified foot                                   | Diagnosis     | ICD-10-CM |
| S91.329A | Laceration with foreign body, unspecified foot, initial encounter                | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S91.329D | Laceration with foreign body, unspecified foot, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S91.329S | Laceration with foreign body, unspecified foot, sequela   | Diagnosis     | ICD-10-CM |
| S91.33   | Puncture wound without foreign body of foot   | Diagnosis     | ICD-10-CM |
| S91.331  | Puncture wound without foreign body, right foot   | Diagnosis     | ICD-10-CM |
| S91.331A | Puncture wound without foreign body, right foot, initial encounter                              | Diagnosis     | ICD-10-CM |
| S91.331D | Puncture wound without foreign body, right foot, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S91.331S | Puncture wound without foreign body, right foot, sequela  | Diagnosis     | ICD-10-CM |
| S91.332  | Puncture wound without foreign body, left foot  | Diagnosis     | ICD-10-CM |
| S91.332A | Puncture wound without foreign body, left foot, initial encounter                               | Diagnosis     | ICD-10-CM |
| S91.332D | Puncture wound without foreign body, left foot, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S91.332S | Puncture wound without foreign body, left foot, sequela   | Diagnosis     | ICD-10-CM |
| S91.339  | Puncture wound without foreign body, unspecified foot   | Diagnosis     | ICD-10-CM |
| S91.339A | Puncture wound without foreign body, unspecified foot, initial encounter                        | Diagnosis     | ICD-10-CM |
| S91.339D | Puncture wound without foreign body, unspecified foot, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S91.339S | Puncture wound without foreign body, unspecified foot, sequela                                  | Diagnosis     | ICD-10-CM |
| S91.34   | Puncture wound with foreign body of foot  | Diagnosis     | ICD-10-CM |
| S91.341  | Puncture wound with foreign body, right foot  | Diagnosis     | ICD-10-CM |
| S91.341A | Puncture wound with foreign body, right foot, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S91.341D | Puncture wound with foreign body, right foot, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S91.341S | Puncture wound with foreign body, right foot, sequela   | Diagnosis     | ICD-10-CM |
| S91.342  | Puncture wound with foreign body, left foot   | Diagnosis     | ICD-10-CM |
| S91.342A | Puncture wound with foreign body, left foot, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S91.342D | Puncture wound with foreign body, left foot, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S91.342S | Puncture wound with foreign body, left foot, sequela  | Diagnosis     | ICD-10-CM |
| S91.349  | Puncture wound with foreign body, unspecified foot  | Diagnosis     | ICD-10-CM |
| S91.349A | Puncture wound with foreign body, unspecified foot, initial encounter                           | Diagnosis     | ICD-10-CM |
| S91.349D | Puncture wound with foreign body, unspecified foot, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S91.349S | Puncture wound with foreign body, unspecified foot, sequela                                     | Diagnosis     | ICD-10-CM |
| S91.35   | Open bite of foot   | Diagnosis     | ICD-10-CM |
| S91.351  | Open bite, right foot   | Diagnosis     | ICD-10-CM |
| S91.351A | Open bite, right foot, initial encounter  | Diagnosis     | ICD-10-CM |
| S91.351D | Open bite, right foot, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S91.351S | Open bite, right foot, sequela  | Diagnosis     | ICD-10-CM |
| S91.352  | Open bite, left foot  | Diagnosis     | ICD-10-CM |
| S91.352A | Open bite, left foot, initial encounter   | Diagnosis     | ICD-10-CM |
| S91.352D | Open bite, left foot, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S91.352S | Open bite, left foot, sequela   | Diagnosis     | ICD-10-CM |
| S91.359  | Open bite, unspecified foot   | Diagnosis     | ICD-10-CM |
| S91.359A | Open bite, unspecified foot, initial encounter  | Diagnosis     | ICD-10-CM |
| S91.359D | Open bite, unspecified foot, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S91.359S | Open bite, unspecified foot, sequela  | Diagnosis     | ICD-10-CM |
| S92      | Fracture of foot and toe, except ankle  | Diagnosis     | ICD-10-CM |
| S92.0    | Fracture of calcaneus   | Diagnosis     | ICD-10-CM |
| S92.00   | Unspecified fracture of calcaneus   | Diagnosis     | ICD-10-CM |
| S92.001  | Unspecified fracture of right calcaneus   | Diagnosis     | ICD-10-CM |
| S92.001A | Unspecified fracture of right calcaneus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.001B | Unspecified fracture of right calcaneus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.001D | Unspecified fracture of right calcaneus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S92.001G | Unspecified fracture of right calcaneus, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.001K | Unspecified fracture of right calcaneus, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.001P | Unspecified fracture of right calcaneus, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.001S | Unspecified fracture of right calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S92.002  | Unspecified fracture of left calcaneus  | Diagnosis     | ICD-10-CM |
| S92.002A | Unspecified fracture of left calcaneus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.002B | Unspecified fracture of left calcaneus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.002D | Unspecified fracture of left calcaneus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.002G | Unspecified fracture of left calcaneus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.002K | Unspecified fracture of left calcaneus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.002P | Unspecified fracture of left calcaneus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.002S | Unspecified fracture of left calcaneus, sequela   | Diagnosis     | ICD-10-CM |
| S92.009  | Unspecified fracture of unspecified calcaneus   | Diagnosis     | ICD-10-CM |
| S92.009A | Unspecified fracture of unspecified calcaneus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.009B | Unspecified fracture of unspecified calcaneus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.009D | Unspecified fracture of unspecified calcaneus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.009G | Unspecified fracture of unspecified calcaneus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.009K | Unspecified fracture of unspecified calcaneus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.009P | Unspecified fracture of unspecified calcaneus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.009S | Unspecified fracture of unspecified calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S92.01   | Fracture of body of calcaneus   | Diagnosis     | ICD-10-CM |
| S92.011  | Displaced fracture of body of right calcaneus   | Diagnosis     | ICD-10-CM |
| S92.011A | Displaced fracture of body of right calcaneus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.011B | Displaced fracture of body of right calcaneus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.011D | Displaced fracture of body of right calcaneus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.011G | Displaced fracture of body of right calcaneus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.011K | Displaced fracture of body of right calcaneus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.011P | Displaced fracture of body of right calcaneus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.011S | Displaced fracture of body of right calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S92.012  | Displaced fracture of body of left calcaneus  | Diagnosis     | ICD-10-CM |
| S92.012A | Displaced fracture of body of left calcaneus, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S92.012B | Displaced fracture of body of left calcaneus, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S92.012D | Displaced fracture of body of left calcaneus, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S92.012G | Displaced fracture of body of left calcaneus, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S92.012K | Displaced fracture of body of left calcaneus, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.012P | Displaced fracture of body of left calcaneus, subsequent encounter for fracture with malunion                  | Diagnosis     | ICD-10-CM |
| S92.012S | Displaced fracture of body of left calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S92.013  | Displaced fracture of body of unspecified calcaneus  | Diagnosis     | ICD-10-CM |
| S92.013A | Displaced fracture of body of unspecified calcaneus, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S92.013B | Displaced fracture of body of unspecified calcaneus, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S92.013D | Displaced fracture of body of unspecified calcaneus, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S92.013G | Displaced fracture of body of unspecified calcaneus, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S92.013K | Displaced fracture of body of unspecified calcaneus, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S92.013P | Displaced fracture of body of unspecified calcaneus, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S92.013S | Displaced fracture of body of unspecified calcaneus, sequela   | Diagnosis     | ICD-10-CM |
| S92.014  | Nondisplaced fracture of body of right calcaneus   | Diagnosis     | ICD-10-CM |
| S92.014A | Nondisplaced fracture of body of right calcaneus, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S92.014B | Nondisplaced fracture of body of right calcaneus, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S92.014D | Nondisplaced fracture of body of right calcaneus, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S92.014G | Nondisplaced fracture of body of right calcaneus, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.014K | Nondisplaced fracture of body of right calcaneus, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.014P | Nondisplaced fracture of body of right calcaneus, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.014S | Nondisplaced fracture of body of right calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S92.015  | Nondisplaced fracture of body of left calcaneus  | Diagnosis     | ICD-10-CM |
| S92.015A | Nondisplaced fracture of body of left calcaneus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.015B | Nondisplaced fracture of body of left calcaneus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.015D | Nondisplaced fracture of body of left calcaneus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.015G | Nondisplaced fracture of body of left calcaneus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.015K | Nondisplaced fracture of body of left calcaneus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.015P | Nondisplaced fracture of body of left calcaneus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.015S | Nondisplaced fracture of body of left calcaneus, sequela   | Diagnosis     | ICD-10-CM |
| S92.016  | Nondisplaced fracture of body of unspecified calcaneus   | Diagnosis     | ICD-10-CM |
| S92.016A | Nondisplaced fracture of body of unspecified calcaneus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.016B | Nondisplaced fracture of body of unspecified calcaneus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.016D | Nondisplaced fracture of body of unspecified calcaneus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.016G | Nondisplaced fracture of body of unspecified calcaneus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.016K | Nondisplaced fracture of body of unspecified calcaneus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S92.016P | Nondisplaced fracture of body of unspecified calcaneus, subsequent encounter for fracture with malunion                 | Diagnosis     | ICD-10-CM |
| S92.016S | Nondisplaced fracture of body of unspecified calcaneus, sequela   | Diagnosis     | ICD-10-CM |
| S92.02   | Fracture of anterior process of calcaneus   | Diagnosis     | ICD-10-CM |
| S92.021  | Displaced fracture of anterior process of right calcaneus   | Diagnosis     | ICD-10-CM |
| S92.021A | Displaced fracture of anterior process of right calcaneus, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S92.021B | Displaced fracture of anterior process of right calcaneus, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S92.021D | Displaced fracture of anterior process of right calcaneus, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S92.021G | Displaced fracture of anterior process of right calcaneus, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.021K | Displaced fracture of anterior process of right calcaneus, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.021P | Displaced fracture of anterior process of right calcaneus, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.021S | Displaced fracture of anterior process of right calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S92.022  | Displaced fracture of anterior process of left calcaneus  | Diagnosis     | ICD-10-CM |
| S92.022A | Displaced fracture of anterior process of left calcaneus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.022B | Displaced fracture of anterior process of left calcaneus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.022D | Displaced fracture of anterior process of left calcaneus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.022G | Displaced fracture of anterior process of left calcaneus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.022K | Displaced fracture of anterior process of left calcaneus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.022P | Displaced fracture of anterior process of left calcaneus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.022S | Displaced fracture of anterior process of left calcaneus, sequela   | Diagnosis     | ICD-10-CM |
| S92.023  | Displaced fracture of anterior process of unspecified calcaneus   | Diagnosis     | ICD-10-CM |
| S92.023A | Displaced fracture of anterior process of unspecified calcaneus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.023B | Displaced fracture of anterior process of unspecified calcaneus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.023D | Displaced fracture of anterior process of unspecified calcaneus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.023G | Displaced fracture of anterior process of unspecified calcaneus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.023K | Displaced fracture of anterior process of unspecified calcaneus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.023P | Displaced fracture of anterior process of unspecified calcaneus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.023S | Displaced fracture of anterior process of unspecified calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S92.024  | Nondisplaced fracture of anterior process of right calcaneus  | Diagnosis     | ICD-10-CM |
| S92.024A | Nondisplaced fracture of anterior process of right calcaneus, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S92.024B | Nondisplaced fracture of anterior process of right calcaneus, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S92.024D | Nondisplaced fracture of anterior process of right calcaneus, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.024G | Nondisplaced fracture of anterior process of right calcaneus, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.024K | Nondisplaced fracture of anterior process of right calcaneus, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.024P | Nondisplaced fracture of anterior process of right calcaneus, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.024S | Nondisplaced fracture of anterior process of right calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S92.025  | Nondisplaced fracture of anterior process of left calcaneus  | Diagnosis     | ICD-10-CM |
| S92.025A | Nondisplaced fracture of anterior process of left calcaneus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.025B | Nondisplaced fracture of anterior process of left calcaneus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.025D | Nondisplaced fracture of anterior process of left calcaneus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.025G | Nondisplaced fracture of anterior process of left calcaneus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.025K | Nondisplaced fracture of anterior process of left calcaneus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.025P | Nondisplaced fracture of anterior process of left calcaneus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.025S | Nondisplaced fracture of anterior process of left calcaneus, sequela   | Diagnosis     | ICD-10-CM |
| S92.026  | Nondisplaced fracture of anterior process of unspecified calcaneus   | Diagnosis     | ICD-10-CM |
| S92.026A | Nondisplaced fracture of anterior process of unspecified calcaneus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.026B | Nondisplaced fracture of anterior process of unspecified calcaneus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.026D | Nondisplaced fracture of anterior process of unspecified calcaneus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.026G | Nondisplaced fracture of anterior process of unspecified calcaneus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.026K | Nondisplaced fracture of anterior process of unspecified calcaneus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.026P | Nondisplaced fracture of anterior process of unspecified calcaneus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.026S | Nondisplaced fracture of anterior process of unspecified calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S92.03   | Avulsion fracture of tuberosity of calcaneus   | Diagnosis     | ICD-10-CM |
| S92.031  | Displaced avulsion fracture of tuberosity of right calcaneus   | Diagnosis     | ICD-10-CM |
| S92.031A | Displaced avulsion fracture of tuberosity of right calcaneus, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S92.031B | Displaced avulsion fracture of tuberosity of right calcaneus, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S92.031D | Displaced avulsion fracture of tuberosity of right calcaneus, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S92.031G | Displaced avulsion fracture of tuberosity of right calcaneus, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.031K | Displaced avulsion fracture of tuberosity of right calcaneus, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.031P | Displaced avulsion fracture of tuberosity of right calcaneus, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.031S | Displaced avulsion fracture of tuberosity of right calcaneus, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.032  | Displaced avulsion fracture of tuberosity of left calcaneus  | Diagnosis     | ICD-10-CM |
| S92.032A | Displaced avulsion fracture of tuberosity of left calcaneus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.032B | Displaced avulsion fracture of tuberosity of left calcaneus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.032D | Displaced avulsion fracture of tuberosity of left calcaneus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.032G | Displaced avulsion fracture of tuberosity of left calcaneus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.032K | Displaced avulsion fracture of tuberosity of left calcaneus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.032P | Displaced avulsion fracture of tuberosity of left calcaneus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.032S | Displaced avulsion fracture of tuberosity of left calcaneus, sequela   | Diagnosis     | ICD-10-CM |
| S92.033  | Displaced avulsion fracture of tuberosity of unspecified calcaneus   | Diagnosis     | ICD-10-CM |
| S92.033A | Displaced avulsion fracture of tuberosity of unspecified calcaneus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.033B | Displaced avulsion fracture of tuberosity of unspecified calcaneus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.033D | Displaced avulsion fracture of tuberosity of unspecified calcaneus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.033G | Displaced avulsion fracture of tuberosity of unspecified calcaneus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.033K | Displaced avulsion fracture of tuberosity of unspecified calcaneus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.033P | Displaced avulsion fracture of tuberosity of unspecified calcaneus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.033S | Displaced avulsion fracture of tuberosity of unspecified calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S92.034  | Nondisplaced avulsion fracture of tuberosity of right calcaneus  | Diagnosis     | ICD-10-CM |
| S92.034A | Nondisplaced avulsion fracture of tuberosity of right calcaneus, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S92.034B | Nondisplaced avulsion fracture of tuberosity of right calcaneus, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S92.034D | Nondisplaced avulsion fracture of tuberosity of right calcaneus, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S92.034G | Nondisplaced avulsion fracture of tuberosity of right calcaneus, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S92.034K | Nondisplaced avulsion fracture of tuberosity of right calcaneus, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S92.034P | Nondisplaced avulsion fracture of tuberosity of right calcaneus, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S92.034S | Nondisplaced avulsion fracture of tuberosity of right calcaneus, sequela   | Diagnosis     | ICD-10-CM |
| S92.035  | Nondisplaced avulsion fracture of tuberosity of left calcaneus   | Diagnosis     | ICD-10-CM |
| S92.035A | Nondisplaced avulsion fracture of tuberosity of left calcaneus, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S92.035B | Nondisplaced avulsion fracture of tuberosity of left calcaneus, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S92.035D | Nondisplaced avulsion fracture of tuberosity of left calcaneus, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S92.035G | Nondisplaced avulsion fracture of tuberosity of left calcaneus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.035K | Nondisplaced avulsion fracture of tuberosity of left calcaneus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.035P | Nondisplaced avulsion fracture of tuberosity of left calcaneus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.035S | Nondisplaced avulsion fracture of tuberosity of left calcaneus, sequela   | Diagnosis     | ICD-10-CM |
| S92.036  | Nondisplaced avulsion fracture of tuberosity of unspecified calcaneus   | Diagnosis     | ICD-10-CM |
| S92.036A | Nondisplaced avulsion fracture of tuberosity of unspecified calcaneus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.036B | Nondisplaced avulsion fracture of tuberosity of unspecified calcaneus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.036D | Nondisplaced avulsion fracture of tuberosity of unspecified calcaneus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.036G | Nondisplaced avulsion fracture of tuberosity of unspecified calcaneus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.036K | Nondisplaced avulsion fracture of tuberosity of unspecified calcaneus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.036P | Nondisplaced avulsion fracture of tuberosity of unspecified calcaneus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.036S | Nondisplaced avulsion fracture of tuberosity of unspecified calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S92.04   | Other fracture of tuberosity of calcaneus   | Diagnosis     | ICD-10-CM |
| S92.041  | Displaced other fracture of tuberosity of right calcaneus   | Diagnosis     | ICD-10-CM |
| S92.041A | Displaced other fracture of tuberosity of right calcaneus, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S92.041B | Displaced other fracture of tuberosity of right calcaneus, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S92.041D | Displaced other fracture of tuberosity of right calcaneus, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S92.041G | Displaced other fracture of tuberosity of right calcaneus, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S92.041K | Displaced other fracture of tuberosity of right calcaneus, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S92.041P | Displaced other fracture of tuberosity of right calcaneus, subsequent encounter for fracture with malunion                    | Diagnosis     | ICD-10-CM |
| S92.041S | Displaced other fracture of tuberosity of right calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S92.042  | Displaced other fracture of tuberosity of left calcaneus  | Diagnosis     | ICD-10-CM |
| S92.042A | Displaced other fracture of tuberosity of left calcaneus, initial encounter for closed fracture                               | Diagnosis     | ICD-10-CM |
| S92.042B | Displaced other fracture of tuberosity of left calcaneus, initial encounter for open fracture                                 | Diagnosis     | ICD-10-CM |
| S92.042D | Displaced other fracture of tuberosity of left calcaneus, subsequent encounter for fracture with routine healing              | Diagnosis     | ICD-10-CM |
| S92.042G | Displaced other fracture of tuberosity of left calcaneus, subsequent encounter for fracture with delayed healing              | Diagnosis     | ICD-10-CM |
| S92.042K | Displaced other fracture of tuberosity of left calcaneus, subsequent encounter for fracture with nonunion                     | Diagnosis     | ICD-10-CM |
| S92.042P | Displaced other fracture of tuberosity of left calcaneus, subsequent encounter for fracture with malunion                     | Diagnosis     | ICD-10-CM |
| S92.042S | Displaced other fracture of tuberosity of left calcaneus, sequela   | Diagnosis     | ICD-10-CM |
| S92.043  | Displaced other fracture of tuberosity of unspecified calcaneus   | Diagnosis     | ICD-10-CM |
| S92.043A | Displaced other fracture of tuberosity of unspecified calcaneus, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.043B | Displaced other fracture of tuberosity of unspecified calcaneus, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S92.043D | Displaced other fracture of tuberosity of unspecified calcaneus, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S92.043G | Displaced other fracture of tuberosity of unspecified calcaneus, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S92.043K | Displaced other fracture of tuberosity of unspecified calcaneus, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S92.043P | Displaced other fracture of tuberosity of unspecified calcaneus, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S92.043S | Displaced other fracture of tuberosity of unspecified calcaneus, sequela   | Diagnosis     | ICD-10-CM |
| S92.044  | Nondisplaced other fracture of tuberosity of right calcaneus   | Diagnosis     | ICD-10-CM |
| S92.044A | Nondisplaced other fracture of tuberosity of right calcaneus, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S92.044B | Nondisplaced other fracture of tuberosity of right calcaneus, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S92.044D | Nondisplaced other fracture of tuberosity of right calcaneus, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S92.044G | Nondisplaced other fracture of tuberosity of right calcaneus, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.044K | Nondisplaced other fracture of tuberosity of right calcaneus, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.044P | Nondisplaced other fracture of tuberosity of right calcaneus, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.044S | Nondisplaced other fracture of tuberosity of right calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S92.045  | Nondisplaced other fracture of tuberosity of left calcaneus  | Diagnosis     | ICD-10-CM |
| S92.045A | Nondisplaced other fracture of tuberosity of left calcaneus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.045B | Nondisplaced other fracture of tuberosity of left calcaneus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.045D | Nondisplaced other fracture of tuberosity of left calcaneus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.045G | Nondisplaced other fracture of tuberosity of left calcaneus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.045K | Nondisplaced other fracture of tuberosity of left calcaneus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.045P | Nondisplaced other fracture of tuberosity of left calcaneus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.045S | Nondisplaced other fracture of tuberosity of left calcaneus, sequela   | Diagnosis     | ICD-10-CM |
| S92.046  | Nondisplaced other fracture of tuberosity of unspecified calcaneus   | Diagnosis     | ICD-10-CM |
| S92.046A | Nondisplaced other fracture of tuberosity of unspecified calcaneus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.046B | Nondisplaced other fracture of tuberosity of unspecified calcaneus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.046D | Nondisplaced other fracture of tuberosity of unspecified calcaneus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.046G | Nondisplaced other fracture of tuberosity of unspecified calcaneus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.046K | Nondisplaced other fracture of tuberosity of unspecified calcaneus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.046P | Nondisplaced other fracture of tuberosity of unspecified calcaneus, subsequent encounter for fracture with malunion      | Diagnosis     | ICD-10-CM |
| S92.046S | Nondisplaced other fracture of tuberosity of unspecified calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S92.05   | Other extraarticular fracture of calcaneus   | Diagnosis     | ICD-10-CM |
| S92.051  | Displaced other extraarticular fracture of right calcaneus   | Diagnosis     | ICD-10-CM |
| S92.051A | Displaced other extraarticular fracture of right calcaneus, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S92.051B | Displaced other extraarticular fracture of right calcaneus, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S92.051D | Displaced other extraarticular fracture of right calcaneus, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S92.051G | Displaced other extraarticular fracture of right calcaneus, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.051K | Displaced other extraarticular fracture of right calcaneus, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.051P | Displaced other extraarticular fracture of right calcaneus, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.051S | Displaced other extraarticular fracture of right calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S92.052  | Displaced other extraarticular fracture of left calcaneus  | Diagnosis     | ICD-10-CM |
| S92.052A | Displaced other extraarticular fracture of left calcaneus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.052B | Displaced other extraarticular fracture of left calcaneus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.052D | Displaced other extraarticular fracture of left calcaneus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.052G | Displaced other extraarticular fracture of left calcaneus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.052K | Displaced other extraarticular fracture of left calcaneus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.052P | Displaced other extraarticular fracture of left calcaneus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.052S | Displaced other extraarticular fracture of left calcaneus, sequela   | Diagnosis     | ICD-10-CM |
| S92.053  | Displaced other extraarticular fracture of unspecified calcaneus   | Diagnosis     | ICD-10-CM |
| S92.053A | Displaced other extraarticular fracture of unspecified calcaneus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.053B | Displaced other extraarticular fracture of unspecified calcaneus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.053D | Displaced other extraarticular fracture of unspecified calcaneus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.053G | Displaced other extraarticular fracture of unspecified calcaneus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.053K | Displaced other extraarticular fracture of unspecified calcaneus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.053P | Displaced other extraarticular fracture of unspecified calcaneus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.053S | Displaced other extraarticular fracture of unspecified calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S92.054  | Nondisplaced other extraarticular fracture of right calcaneus  | Diagnosis     | ICD-10-CM |
| S92.054A | Nondisplaced other extraarticular fracture of right calcaneus, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S92.054B | Nondisplaced other extraarticular fracture of right calcaneus, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S92.054D | Nondisplaced other extraarticular fracture of right calcaneus, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S92.054G | Nondisplaced other extraarticular fracture of right calcaneus, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.054K | Nondisplaced other extraarticular fracture of right calcaneus, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.054P | Nondisplaced other extraarticular fracture of right calcaneus, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.054S | Nondisplaced other extraarticular fracture of right calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S92.055  | Nondisplaced other extraarticular fracture of left calcaneus  | Diagnosis     | ICD-10-CM |
| S92.055A | Nondisplaced other extraarticular fracture of left calcaneus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.055B | Nondisplaced other extraarticular fracture of left calcaneus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.055D | Nondisplaced other extraarticular fracture of left calcaneus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.055G | Nondisplaced other extraarticular fracture of left calcaneus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.055K | Nondisplaced other extraarticular fracture of left calcaneus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.055P | Nondisplaced other extraarticular fracture of left calcaneus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.055S | Nondisplaced other extraarticular fracture of left calcaneus, sequela   | Diagnosis     | ICD-10-CM |
| S92.056  | Nondisplaced other extraarticular fracture of unspecified calcaneus   | Diagnosis     | ICD-10-CM |
| S92.056A | Nondisplaced other extraarticular fracture of unspecified calcaneus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.056B | Nondisplaced other extraarticular fracture of unspecified calcaneus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.056D | Nondisplaced other extraarticular fracture of unspecified calcaneus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.056G | Nondisplaced other extraarticular fracture of unspecified calcaneus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.056K | Nondisplaced other extraarticular fracture of unspecified calcaneus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.056P | Nondisplaced other extraarticular fracture of unspecified calcaneus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.056S | Nondisplaced other extraarticular fracture of unspecified calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S92.06   | Intraarticular fracture of calcaneus  | Diagnosis     | ICD-10-CM |
| S92.061  | Displaced intraarticular fracture of right calcaneus  | Diagnosis     | ICD-10-CM |
| S92.061A | Displaced intraarticular fracture of right calcaneus, initial encounter for closed fracture                                 | Diagnosis     | ICD-10-CM |
| S92.061B | Displaced intraarticular fracture of right calcaneus, initial encounter for open fracture                                   | Diagnosis     | ICD-10-CM |
| S92.061D | Displaced intraarticular fracture of right calcaneus, subsequent encounter for fracture with routine healing                | Diagnosis     | ICD-10-CM |
| S92.061G | Displaced intraarticular fracture of right calcaneus, subsequent encounter for fracture with delayed healing                | Diagnosis     | ICD-10-CM |
| S92.061K | Displaced intraarticular fracture of right calcaneus, subsequent encounter for fracture with nonunion                       | Diagnosis     | ICD-10-CM |
| S92.061P | Displaced intraarticular fracture of right calcaneus, subsequent encounter for fracture with malunion                       | Diagnosis     | ICD-10-CM |
| S92.061S | Displaced intraarticular fracture of right calcaneus, sequela   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.062  | Displaced intraarticular fracture of left calcaneus  | Diagnosis     | ICD-10-CM |
| S92.062A | Displaced intraarticular fracture of left calcaneus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.062B | Displaced intraarticular fracture of left calcaneus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.062D | Displaced intraarticular fracture of left calcaneus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.062G | Displaced intraarticular fracture of left calcaneus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.062K | Displaced intraarticular fracture of left calcaneus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.062P | Displaced intraarticular fracture of left calcaneus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.062S | Displaced intraarticular fracture of left calcaneus, sequela   | Diagnosis     | ICD-10-CM |
| S92.063  | Displaced intraarticular fracture of unspecified calcaneus   | Diagnosis     | ICD-10-CM |
| S92.063A | Displaced intraarticular fracture of unspecified calcaneus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.063B | Displaced intraarticular fracture of unspecified calcaneus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.063D | Displaced intraarticular fracture of unspecified calcaneus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.063G | Displaced intraarticular fracture of unspecified calcaneus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.063K | Displaced intraarticular fracture of unspecified calcaneus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.063P | Displaced intraarticular fracture of unspecified calcaneus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.063S | Displaced intraarticular fracture of unspecified calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S92.064  | Nondisplaced intraarticular fracture of right calcaneus  | Diagnosis     | ICD-10-CM |
| S92.064A | Nondisplaced intraarticular fracture of right calcaneus, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S92.064B | Nondisplaced intraarticular fracture of right calcaneus, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S92.064D | Nondisplaced intraarticular fracture of right calcaneus, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S92.064G | Nondisplaced intraarticular fracture of right calcaneus, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S92.064K | Nondisplaced intraarticular fracture of right calcaneus, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S92.064P | Nondisplaced intraarticular fracture of right calcaneus, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S92.064S | Nondisplaced intraarticular fracture of right calcaneus, sequela   | Diagnosis     | ICD-10-CM |
| S92.065  | Nondisplaced intraarticular fracture of left calcaneus   | Diagnosis     | ICD-10-CM |
| S92.065A | Nondisplaced intraarticular fracture of left calcaneus, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S92.065B | Nondisplaced intraarticular fracture of left calcaneus, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S92.065D | Nondisplaced intraarticular fracture of left calcaneus, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S92.065G | Nondisplaced intraarticular fracture of left calcaneus, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S92.065K | Nondisplaced intraarticular fracture of left calcaneus, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S92.065P | Nondisplaced intraarticular fracture of left calcaneus, subsequent encounter for fracture with malunion            | Diagnosis     | ICD-10-CM |
| S92.065S | Nondisplaced intraarticular fracture of left calcaneus, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S92.066  | Nondisplaced intraarticular fracture of unspecified calcaneus   | Diagnosis     | ICD-10-CM |
| S92.066A | Nondisplaced intraarticular fracture of unspecified calcaneus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.066B | Nondisplaced intraarticular fracture of unspecified calcaneus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.066D | Nondisplaced intraarticular fracture of unspecified calcaneus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.066G | Nondisplaced intraarticular fracture of unspecified calcaneus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.066K | Nondisplaced intraarticular fracture of unspecified calcaneus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.066P | Nondisplaced intraarticular fracture of unspecified calcaneus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.066S | Nondisplaced intraarticular fracture of unspecified calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S92.1    | Fracture of talus   | Diagnosis     | ICD-10-CM |
| S92.10   | Unspecified fracture of talus   | Diagnosis     | ICD-10-CM |
| S92.101  | Unspecified fracture of right talus   | Diagnosis     | ICD-10-CM |
| S92.101A | Unspecified fracture of right talus, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S92.101B | Unspecified fracture of right talus, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S92.101D | Unspecified fracture of right talus, subsequent encounter for fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S92.101G | Unspecified fracture of right talus, subsequent encounter for fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S92.101K | Unspecified fracture of right talus, subsequent encounter for fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S92.101P | Unspecified fracture of right talus, subsequent encounter for fracture with malunion                                  | Diagnosis     | ICD-10-CM |
| S92.101S | Unspecified fracture of right talus, sequela  | Diagnosis     | ICD-10-CM |
| S92.102  | Unspecified fracture of left talus  | Diagnosis     | ICD-10-CM |
| S92.102A | Unspecified fracture of left talus, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S92.102B | Unspecified fracture of left talus, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S92.102D | Unspecified fracture of left talus, subsequent encounter for fracture with routine healing                            | Diagnosis     | ICD-10-CM |
| S92.102G | Unspecified fracture of left talus, subsequent encounter for fracture with delayed healing                            | Diagnosis     | ICD-10-CM |
| S92.102K | Unspecified fracture of left talus, subsequent encounter for fracture with nonunion                                   | Diagnosis     | ICD-10-CM |
| S92.102P | Unspecified fracture of left talus, subsequent encounter for fracture with malunion                                   | Diagnosis     | ICD-10-CM |
| S92.102S | Unspecified fracture of left talus, sequela   | Diagnosis     | ICD-10-CM |
| S92.109  | Unspecified fracture of unspecified talus   | Diagnosis     | ICD-10-CM |
| S92.109A | Unspecified fracture of unspecified talus, initial encounter for closed fracture                                      | Diagnosis     | ICD-10-CM |
| S92.109B | Unspecified fracture of unspecified talus, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S92.109D | Unspecified fracture of unspecified talus, subsequent encounter for fracture with routine healing                     | Diagnosis     | ICD-10-CM |
| S92.109G | Unspecified fracture of unspecified talus, subsequent encounter for fracture with delayed healing                     | Diagnosis     | ICD-10-CM |
| S92.109K | Unspecified fracture of unspecified talus, subsequent encounter for fracture with nonunion                            | Diagnosis     | ICD-10-CM |
| S92.109P | Unspecified fracture of unspecified talus, subsequent encounter for fracture with malunion                            | Diagnosis     | ICD-10-CM |
| S92.109S | Unspecified fracture of unspecified talus, sequela  | Diagnosis     | ICD-10-CM |
| S92.11   | Fracture of neck of talus   | Diagnosis     | ICD-10-CM |
| S92.111  | Displaced fracture of neck of right talus   | Diagnosis     | ICD-10-CM |
| S92.111A | Displaced fracture of neck of right talus, initial encounter for closed fracture                                      | Diagnosis     | ICD-10-CM |
| S92.111B | Displaced fracture of neck of right talus, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S92.111D | Displaced fracture of neck of right talus, subsequent encounter for fracture with routine healing                     | Diagnosis     | ICD-10-CM |
| S92.111G | Displaced fracture of neck of right talus, subsequent encounter for fracture with delayed healing                     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S92.111K | Displaced fracture of neck of right talus, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.111P | Displaced fracture of neck of right talus, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.111S | Displaced fracture of neck of right talus, sequela  | Diagnosis     | ICD-10-CM |
| S92.112  | Displaced fracture of neck of left talus  | Diagnosis     | ICD-10-CM |
| S92.112A | Displaced fracture of neck of left talus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.112B | Displaced fracture of neck of left talus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.112D | Displaced fracture of neck of left talus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.112G | Displaced fracture of neck of left talus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.112K | Displaced fracture of neck of left talus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.112P | Displaced fracture of neck of left talus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.112S | Displaced fracture of neck of left talus, sequela   | Diagnosis     | ICD-10-CM |
| S92.113  | Displaced fracture of neck of unspecified talus   | Diagnosis     | ICD-10-CM |
| S92.113A | Displaced fracture of neck of unspecified talus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.113B | Displaced fracture of neck of unspecified talus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.113D | Displaced fracture of neck of unspecified talus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.113G | Displaced fracture of neck of unspecified talus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.113K | Displaced fracture of neck of unspecified talus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.113P | Displaced fracture of neck of unspecified talus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.113S | Displaced fracture of neck of unspecified talus, sequela  | Diagnosis     | ICD-10-CM |
| S92.114  | Nondisplaced fracture of neck of right talus  | Diagnosis     | ICD-10-CM |
| S92.114A | Nondisplaced fracture of neck of right talus, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S92.114B | Nondisplaced fracture of neck of right talus, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S92.114D | Nondisplaced fracture of neck of right talus, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S92.114G | Nondisplaced fracture of neck of right talus, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S92.114K | Nondisplaced fracture of neck of right talus, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S92.114P | Nondisplaced fracture of neck of right talus, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S92.114S | Nondisplaced fracture of neck of right talus, sequela   | Diagnosis     | ICD-10-CM |
| S92.115  | Nondisplaced fracture of neck of left talus   | Diagnosis     | ICD-10-CM |
| S92.115A | Nondisplaced fracture of neck of left talus, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S92.115B | Nondisplaced fracture of neck of left talus, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S92.115D | Nondisplaced fracture of neck of left talus, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S92.115G | Nondisplaced fracture of neck of left talus, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S92.115K | Nondisplaced fracture of neck of left talus, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S92.115P | Nondisplaced fracture of neck of left talus, subsequent encounter for fracture with malunion            | Diagnosis     | ICD-10-CM |
| S92.115S | Nondisplaced fracture of neck of left talus, sequela  | Diagnosis     | ICD-10-CM |
| S92.116  | Nondisplaced fracture of neck of unspecified talus  | Diagnosis     | ICD-10-CM |
| S92.116A | Nondisplaced fracture of neck of unspecified talus, initial encounter for closed fracture               | Diagnosis     | ICD-10-CM |
| S92.116B | Nondisplaced fracture of neck of unspecified talus, initial encounter for open fracture                 | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.116D | Nondisplaced fracture of neck of unspecified talus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.116G | Nondisplaced fracture of neck of unspecified talus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.116K | Nondisplaced fracture of neck of unspecified talus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.116P | Nondisplaced fracture of neck of unspecified talus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.116S | Nondisplaced fracture of neck of unspecified talus, sequela  | Diagnosis     | ICD-10-CM |
| S92.12   | Fracture of body of talus  | Diagnosis     | ICD-10-CM |
| S92.121  | Displaced fracture of body of right talus  | Diagnosis     | ICD-10-CM |
| S92.121A | Displaced fracture of body of right talus, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S92.121B | Displaced fracture of body of right talus, initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |
| S92.121D | Displaced fracture of body of right talus, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S92.121G | Displaced fracture of body of right talus, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S92.121K | Displaced fracture of body of right talus, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S92.121P | Displaced fracture of body of right talus, subsequent encounter for fracture with malunion                 | Diagnosis     | ICD-10-CM |
| S92.121S | Displaced fracture of body of right talus, sequela   | Diagnosis     | ICD-10-CM |
| S92.122  | Displaced fracture of body of left talus   | Diagnosis     | ICD-10-CM |
| S92.122A | Displaced fracture of body of left talus, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S92.122B | Displaced fracture of body of left talus, initial encounter for open fracture                              | Diagnosis     | ICD-10-CM |
| S92.122D | Displaced fracture of body of left talus, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S92.122G | Displaced fracture of body of left talus, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S92.122K | Displaced fracture of body of left talus, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S92.122P | Displaced fracture of body of left talus, subsequent encounter for fracture with malunion                  | Diagnosis     | ICD-10-CM |
| S92.122S | Displaced fracture of body of left talus, sequela  | Diagnosis     | ICD-10-CM |
| S92.123  | Displaced fracture of body of unspecified talus  | Diagnosis     | ICD-10-CM |
| S92.123A | Displaced fracture of body of unspecified talus, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S92.123B | Displaced fracture of body of unspecified talus, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S92.123D | Displaced fracture of body of unspecified talus, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S92.123G | Displaced fracture of body of unspecified talus, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S92.123K | Displaced fracture of body of unspecified talus, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S92.123P | Displaced fracture of body of unspecified talus, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S92.123S | Displaced fracture of body of unspecified talus, sequela   | Diagnosis     | ICD-10-CM |
| S92.124  | Nondisplaced fracture of body of right talus   | Diagnosis     | ICD-10-CM |
| S92.124A | Nondisplaced fracture of body of right talus, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S92.124B | Nondisplaced fracture of body of right talus, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S92.124D | Nondisplaced fracture of body of right talus, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S92.124G | Nondisplaced fracture of body of right talus, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.124K | Nondisplaced fracture of body of right talus, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S92.124P | Nondisplaced fracture of body of right talus, subsequent encounter for fracture with malunion                  | Diagnosis     | ICD-10-CM |
| S92.124S | Nondisplaced fracture of body of right talus, sequela  | Diagnosis     | ICD-10-CM |
| S92.125  | Nondisplaced fracture of body of left talus  | Diagnosis     | ICD-10-CM |
| S92.125A | Nondisplaced fracture of body of left talus, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S92.125B | Nondisplaced fracture of body of left talus, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S92.125D | Nondisplaced fracture of body of left talus, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S92.125G | Nondisplaced fracture of body of left talus, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S92.125K | Nondisplaced fracture of body of left talus, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S92.125P | Nondisplaced fracture of body of left talus, subsequent encounter for fracture with malunion                   | Diagnosis     | ICD-10-CM |
| S92.125S | Nondisplaced fracture of body of left talus, sequela   | Diagnosis     | ICD-10-CM |
| S92.126  | Nondisplaced fracture of body of unspecified talus   | Diagnosis     | ICD-10-CM |
| S92.126A | Nondisplaced fracture of body of unspecified talus, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S92.126B | Nondisplaced fracture of body of unspecified talus, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S92.126D | Nondisplaced fracture of body of unspecified talus, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S92.126G | Nondisplaced fracture of body of unspecified talus, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S92.126K | Nondisplaced fracture of body of unspecified talus, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S92.126P | Nondisplaced fracture of body of unspecified talus, subsequent encounter for fracture with malunion            | Diagnosis     | ICD-10-CM |
| S92.126S | Nondisplaced fracture of body of unspecified talus, sequela  | Diagnosis     | ICD-10-CM |
| S92.13   | Fracture of posterior process of talus   | Diagnosis     | ICD-10-CM |
| S92.131  | Displaced fracture of posterior process of right talus   | Diagnosis     | ICD-10-CM |
| S92.131A | Displaced fracture of posterior process of right talus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.131B | Displaced fracture of posterior process of right talus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.131D | Displaced fracture of posterior process of right talus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.131G | Displaced fracture of posterior process of right talus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.131K | Displaced fracture of posterior process of right talus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.131P | Displaced fracture of posterior process of right talus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.131S | Displaced fracture of posterior process of right talus, sequela  | Diagnosis     | ICD-10-CM |
| S92.132  | Displaced fracture of posterior process of left talus  | Diagnosis     | ICD-10-CM |
| S92.132A | Displaced fracture of posterior process of left talus, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S92.132B | Displaced fracture of posterior process of left talus, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S92.132D | Displaced fracture of posterior process of left talus, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S92.132G | Displaced fracture of posterior process of left talus, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.132K | Displaced fracture of posterior process of left talus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.132P | Displaced fracture of posterior process of left talus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.132S | Displaced fracture of posterior process of left talus, sequela   | Diagnosis     | ICD-10-CM |
| S92.133  | Displaced fracture of posterior process of unspecified talus   | Diagnosis     | ICD-10-CM |
| S92.133A | Displaced fracture of posterior process of unspecified talus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.133B | Displaced fracture of posterior process of unspecified talus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.133D | Displaced fracture of posterior process of unspecified talus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.133G | Displaced fracture of posterior process of unspecified talus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.133K | Displaced fracture of posterior process of unspecified talus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.133P | Displaced fracture of posterior process of unspecified talus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.133S | Displaced fracture of posterior process of unspecified talus, sequela  | Diagnosis     | ICD-10-CM |
| S92.134  | Nondisplaced fracture of posterior process of right talus  | Diagnosis     | ICD-10-CM |
| S92.134A | Nondisplaced fracture of posterior process of right talus, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S92.134B | Nondisplaced fracture of posterior process of right talus, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S92.134D | Nondisplaced fracture of posterior process of right talus, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S92.134G | Nondisplaced fracture of posterior process of right talus, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S92.134K | Nondisplaced fracture of posterior process of right talus, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S92.134P | Nondisplaced fracture of posterior process of right talus, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S92.134S | Nondisplaced fracture of posterior process of right talus, sequela   | Diagnosis     | ICD-10-CM |
| S92.135  | Nondisplaced fracture of posterior process of left talus   | Diagnosis     | ICD-10-CM |
| S92.135A | Nondisplaced fracture of posterior process of left talus, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S92.135B | Nondisplaced fracture of posterior process of left talus, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S92.135D | Nondisplaced fracture of posterior process of left talus, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S92.135G | Nondisplaced fracture of posterior process of left talus, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S92.135K | Nondisplaced fracture of posterior process of left talus, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S92.135P | Nondisplaced fracture of posterior process of left talus, subsequent encounter for fracture with malunion            | Diagnosis     | ICD-10-CM |
| S92.135S | Nondisplaced fracture of posterior process of left talus, sequela  | Diagnosis     | ICD-10-CM |
| S92.136  | Nondisplaced fracture of posterior process of unspecified talus  | Diagnosis     | ICD-10-CM |
| S92.136A | Nondisplaced fracture of posterior process of unspecified talus, initial encounter for closed fracture               | Diagnosis     | ICD-10-CM |
| S92.136B | Nondisplaced fracture of posterior process of unspecified talus, initial encounter for open fracture                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S92.136D | Nondisplaced fracture of posterior process of unspecified talus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.136G | Nondisplaced fracture of posterior process of unspecified talus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.136K | Nondisplaced fracture of posterior process of unspecified talus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.136P | Nondisplaced fracture of posterior process of unspecified talus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.136S | Nondisplaced fracture of posterior process of unspecified talus, sequela  | Diagnosis     | ICD-10-CM |
| S92.14   | Dome fracture of talus  | Diagnosis     | ICD-10-CM |
| S92.141  | Displaced dome fracture of right talus  | Diagnosis     | ICD-10-CM |
| S92.141A | Displaced dome fracture of right talus, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S92.141B | Displaced dome fracture of right talus, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S92.141D | Displaced dome fracture of right talus, subsequent encounter for fracture with routine healing                          | Diagnosis     | ICD-10-CM |
| S92.141G | Displaced dome fracture of right talus, subsequent encounter for fracture with delayed healing                          | Diagnosis     | ICD-10-CM |
| S92.141K | Displaced dome fracture of right talus, subsequent encounter for fracture with nonunion                                 | Diagnosis     | ICD-10-CM |
| S92.141P | Displaced dome fracture of right talus, subsequent encounter for fracture with malunion                                 | Diagnosis     | ICD-10-CM |
| S92.141S | Displaced dome fracture of right talus, sequela   | Diagnosis     | ICD-10-CM |
| S92.142  | Displaced dome fracture of left talus   | Diagnosis     | ICD-10-CM |
| S92.142A | Displaced dome fracture of left talus, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S92.142B | Displaced dome fracture of left talus, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S92.142D | Displaced dome fracture of left talus, subsequent encounter for fracture with routine healing                           | Diagnosis     | ICD-10-CM |
| S92.142G | Displaced dome fracture of left talus, subsequent encounter for fracture with delayed healing                           | Diagnosis     | ICD-10-CM |
| S92.142K | Displaced dome fracture of left talus, subsequent encounter for fracture with nonunion                                  | Diagnosis     | ICD-10-CM |
| S92.142P | Displaced dome fracture of left talus, subsequent encounter for fracture with malunion                                  | Diagnosis     | ICD-10-CM |
| S92.142S | Displaced dome fracture of left talus, sequela  | Diagnosis     | ICD-10-CM |
| S92.143  | Displaced dome fracture of unspecified talus  | Diagnosis     | ICD-10-CM |
| S92.143A | Displaced dome fracture of unspecified talus, initial encounter for closed fracture                                     | Diagnosis     | ICD-10-CM |
| S92.143B | Displaced dome fracture of unspecified talus, initial encounter for open fracture                                       | Diagnosis     | ICD-10-CM |
| S92.143D | Displaced dome fracture of unspecified talus, subsequent encounter for fracture with routine healing                    | Diagnosis     | ICD-10-CM |
| S92.143G | Displaced dome fracture of unspecified talus, subsequent encounter for fracture with delayed healing                    | Diagnosis     | ICD-10-CM |
| S92.143K | Displaced dome fracture of unspecified talus, subsequent encounter for fracture with nonunion                           | Diagnosis     | ICD-10-CM |
| S92.143P | Displaced dome fracture of unspecified talus, subsequent encounter for fracture with malunion                           | Diagnosis     | ICD-10-CM |
| S92.143S | Displaced dome fracture of unspecified talus, sequela   | Diagnosis     | ICD-10-CM |
| S92.144  | Nondisplaced dome fracture of right talus   | Diagnosis     | ICD-10-CM |
| S92.144A | Nondisplaced dome fracture of right talus, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S92.144B | Nondisplaced dome fracture of right talus, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S92.144D | Nondisplaced dome fracture of right talus, subsequent encounter for fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S92.144G | Nondisplaced dome fracture of right talus, subsequent encounter for fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S92.144K | Nondisplaced dome fracture of right talus, subsequent encounter for fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S92.144P | Nondisplaced dome fracture of right talus, subsequent encounter for fracture with malunion                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.144S | Nondisplaced dome fracture of right talus, sequela   | Diagnosis     | ICD-10-CM |
| S92.145  | Nondisplaced dome fracture of left talus   | Diagnosis     | ICD-10-CM |
| S92.145A | Nondisplaced dome fracture of left talus, initial encounter for closed fracture                                    | Diagnosis     | ICD-10-CM |
| S92.145B | Nondisplaced dome fracture of left talus, initial encounter for open fracture                                      | Diagnosis     | ICD-10-CM |
| S92.145D | Nondisplaced dome fracture of left talus, subsequent encounter for fracture with routine healing                   | Diagnosis     | ICD-10-CM |
| S92.145G | Nondisplaced dome fracture of left talus, subsequent encounter for fracture with delayed healing                   | Diagnosis     | ICD-10-CM |
| S92.145K | Nondisplaced dome fracture of left talus, subsequent encounter for fracture with nonunion                          | Diagnosis     | ICD-10-CM |
| S92.145P | Nondisplaced dome fracture of left talus, subsequent encounter for fracture with malunion                          | Diagnosis     | ICD-10-CM |
| S92.145S | Nondisplaced dome fracture of left talus, sequela  | Diagnosis     | ICD-10-CM |
| S92.146  | Nondisplaced dome fracture of unspecified talus  | Diagnosis     | ICD-10-CM |
| S92.146A | Nondisplaced dome fracture of unspecified talus, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S92.146B | Nondisplaced dome fracture of unspecified talus, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S92.146D | Nondisplaced dome fracture of unspecified talus, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S92.146G | Nondisplaced dome fracture of unspecified talus, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S92.146K | Nondisplaced dome fracture of unspecified talus, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S92.146P | Nondisplaced dome fracture of unspecified talus, subsequent encounter for fracture with malunion                   | Diagnosis     | ICD-10-CM |
| S92.146S | Nondisplaced dome fracture of unspecified talus, sequela   | Diagnosis     | ICD-10-CM |
| S92.15   | Avulsion fracture (chip fracture) of talus   | Diagnosis     | ICD-10-CM |
| S92.151  | Displaced avulsion fracture (chip fracture) of right talus   | Diagnosis     | ICD-10-CM |
| S92.151A | Displaced avulsion fracture (chip fracture) of right talus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.151B | Displaced avulsion fracture (chip fracture) of right talus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.151D | Displaced avulsion fracture (chip fracture) of right talus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.151G | Displaced avulsion fracture (chip fracture) of right talus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.151K | Displaced avulsion fracture (chip fracture) of right talus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.151P | Displaced avulsion fracture (chip fracture) of right talus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.151S | Displaced avulsion fracture (chip fracture) of right talus, sequela  | Diagnosis     | ICD-10-CM |
| S92.152  | Displaced avulsion fracture (chip fracture) of left talus  | Diagnosis     | ICD-10-CM |
| S92.152A | Displaced avulsion fracture (chip fracture) of left talus, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S92.152B | Displaced avulsion fracture (chip fracture) of left talus, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S92.152D | Displaced avulsion fracture (chip fracture) of left talus, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S92.152G | Displaced avulsion fracture (chip fracture) of left talus, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S92.152K | Displaced avulsion fracture (chip fracture) of left talus, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S92.152P | Displaced avulsion fracture (chip fracture) of left talus, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S92.152S | Displaced avulsion fracture (chip fracture) of left talus, sequela   | Diagnosis     | ICD-10-CM |
| S92.153  | Displaced avulsion fracture (chip fracture) of unspecified talus   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S92.153A | Displaced avulsion fracture (chip fracture) of unspecified talus, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S92.153B | Displaced avulsion fracture (chip fracture) of unspecified talus, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S92.153D | Displaced avulsion fracture (chip fracture) of unspecified talus, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S92.153G | Displaced avulsion fracture (chip fracture) of unspecified talus, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S92.153K | Displaced avulsion fracture (chip fracture) of unspecified talus, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S92.153P | Displaced avulsion fracture (chip fracture) of unspecified talus, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S92.153S | Displaced avulsion fracture (chip fracture) of unspecified talus, sequela   | Diagnosis     | ICD-10-CM |
| S92.154  | Nondisplaced avulsion fracture (chip fracture) of right talus   | Diagnosis     | ICD-10-CM |
| S92.154A | Nondisplaced avulsion fracture (chip fracture) of right talus, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S92.154B | Nondisplaced avulsion fracture (chip fracture) of right talus, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S92.154D | Nondisplaced avulsion fracture (chip fracture) of right talus, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S92.154G | Nondisplaced avulsion fracture (chip fracture) of right talus, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.154K | Nondisplaced avulsion fracture (chip fracture) of right talus, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.154P | Nondisplaced avulsion fracture (chip fracture) of right talus, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.154S | Nondisplaced avulsion fracture (chip fracture) of right talus, sequela  | Diagnosis     | ICD-10-CM |
| S92.155  | Nondisplaced avulsion fracture (chip fracture) of left talus  | Diagnosis     | ICD-10-CM |
| S92.155A | Nondisplaced avulsion fracture (chip fracture) of left talus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.155B | Nondisplaced avulsion fracture (chip fracture) of left talus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.155D | Nondisplaced avulsion fracture (chip fracture) of left talus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.155G | Nondisplaced avulsion fracture (chip fracture) of left talus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.155K | Nondisplaced avulsion fracture (chip fracture) of left talus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.155P | Nondisplaced avulsion fracture (chip fracture) of left talus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.155S | Nondisplaced avulsion fracture (chip fracture) of left talus, sequela   | Diagnosis     | ICD-10-CM |
| S92.156  | Nondisplaced avulsion fracture (chip fracture) of unspecified talus   | Diagnosis     | ICD-10-CM |
| S92.156A | Nondisplaced avulsion fracture (chip fracture) of unspecified talus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.156B | Nondisplaced avulsion fracture (chip fracture) of unspecified talus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.156D | Nondisplaced avulsion fracture (chip fracture) of unspecified talus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.156G | Nondisplaced avulsion fracture (chip fracture) of unspecified talus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.156K | Nondisplaced avulsion fracture (chip fracture) of unspecified talus, subsequent encounter for fracture with nonunion | Diagnosis     | ICD-10-CM |
| S92.156P | Nondisplaced avulsion fracture (chip fracture) of unspecified talus, subsequent encounter for fracture with malunion | Diagnosis     | ICD-10-CM |
| S92.156S | Nondisplaced avulsion fracture (chip fracture) of unspecified talus, sequela   | Diagnosis     | ICD-10-CM |
| S92.19   | Other fracture of talus  | Diagnosis     | ICD-10-CM |
| S92.191  | Other fracture of right talus  | Diagnosis     | ICD-10-CM |
| S92.191A | Other fracture of right talus, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S92.191B | Other fracture of right talus, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S92.191D | Other fracture of right talus, subsequent encounter for fracture with routine healing                                | Diagnosis     | ICD-10-CM |
| S92.191G | Other fracture of right talus, subsequent encounter for fracture with delayed healing                                | Diagnosis     | ICD-10-CM |
| S92.191K | Other fracture of right talus, subsequent encounter for fracture with nonunion                                       | Diagnosis     | ICD-10-CM |
| S92.191P | Other fracture of right talus, subsequent encounter for fracture with malunion                                       | Diagnosis     | ICD-10-CM |
| S92.191S | Other fracture of right talus, sequela   | Diagnosis     | ICD-10-CM |
| S92.192  | Other fracture of left talus   | Diagnosis     | ICD-10-CM |
| S92.192A | Other fracture of left talus, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S92.192B | Other fracture of left talus, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S92.192D | Other fracture of left talus, subsequent encounter for fracture with routine healing                                 | Diagnosis     | ICD-10-CM |
| S92.192G | Other fracture of left talus, subsequent encounter for fracture with delayed healing                                 | Diagnosis     | ICD-10-CM |
| S92.192K | Other fracture of left talus, subsequent encounter for fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S92.192P | Other fracture of left talus, subsequent encounter for fracture with malunion  | Diagnosis     | ICD-10-CM |
| S92.192S | Other fracture of left talus, sequela  | Diagnosis     | ICD-10-CM |
| S92.199  | Other fracture of unspecified talus  | Diagnosis     | ICD-10-CM |
| S92.199A | Other fracture of unspecified talus, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S92.199B | Other fracture of unspecified talus, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S92.199D | Other fracture of unspecified talus, subsequent encounter for fracture with routine healing                          | Diagnosis     | ICD-10-CM |
| S92.199G | Other fracture of unspecified talus, subsequent encounter for fracture with delayed healing                          | Diagnosis     | ICD-10-CM |
| S92.199K | Other fracture of unspecified talus, subsequent encounter for fracture with nonunion                                 | Diagnosis     | ICD-10-CM |
| S92.199P | Other fracture of unspecified talus, subsequent encounter for fracture with malunion                                 | Diagnosis     | ICD-10-CM |
| S92.199S | Other fracture of unspecified talus, sequela   | Diagnosis     | ICD-10-CM |
| S92.2    | Fracture of other and unspecified tarsal bone(s)   | Diagnosis     | ICD-10-CM |
| S92.20   | Fracture of unspecified tarsal bone(s)   | Diagnosis     | ICD-10-CM |
| S92.201  | Fracture of unspecified tarsal bone(s) of right foot   | Diagnosis     | ICD-10-CM |
| S92.201A | Fracture of unspecified tarsal bone(s) of right foot, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S92.201B | Fracture of unspecified tarsal bone(s) of right foot, initial encounter for open fracture                            | Diagnosis     | ICD-10-CM |
| S92.201D | Fracture of unspecified tarsal bone(s) of right foot, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S92.201G | Fracture of unspecified tarsal bone(s) of right foot, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S92.201K | Fracture of unspecified tarsal bone(s) of right foot, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S92.201P | Fracture of unspecified tarsal bone(s) of right foot, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S92.201S | Fracture of unspecified tarsal bone(s) of right foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.202  | Fracture of unspecified tarsal bone(s) of left foot  | Diagnosis     | ICD-10-CM |
| S92.202A | Fracture of unspecified tarsal bone(s) of left foot, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S92.202B | Fracture of unspecified tarsal bone(s) of left foot, initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |
| S92.202D | Fracture of unspecified tarsal bone(s) of left foot, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.202G | Fracture of unspecified tarsal bone(s) of left foot, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.202K | Fracture of unspecified tarsal bone(s) of left foot, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.202P | Fracture of unspecified tarsal bone(s) of left foot, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.202S | Fracture of unspecified tarsal bone(s) of left foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.209  | Fracture of unspecified tarsal bone(s) of unspecified foot   | Diagnosis     | ICD-10-CM |
| S92.209A | Fracture of unspecified tarsal bone(s) of unspecified foot, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.209B | Fracture of unspecified tarsal bone(s) of unspecified foot, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.209D | Fracture of unspecified tarsal bone(s) of unspecified foot, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.209G | Fracture of unspecified tarsal bone(s) of unspecified foot, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.209K | Fracture of unspecified tarsal bone(s) of unspecified foot, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.209P | Fracture of unspecified tarsal bone(s) of unspecified foot, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.209S | Fracture of unspecified tarsal bone(s) of unspecified foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.21   | Fracture of cuboid bone  | Diagnosis     | ICD-10-CM |
| S92.211  | Displaced fracture of cuboid bone of right foot  | Diagnosis     | ICD-10-CM |
| S92.211A | Displaced fracture of cuboid bone of right foot, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S92.211B | Displaced fracture of cuboid bone of right foot, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S92.211D | Displaced fracture of cuboid bone of right foot, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S92.211G | Displaced fracture of cuboid bone of right foot, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S92.211K | Displaced fracture of cuboid bone of right foot, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S92.211P | Displaced fracture of cuboid bone of right foot, subsequent encounter for fracture with malunion                   | Diagnosis     | ICD-10-CM |
| S92.211S | Displaced fracture of cuboid bone of right foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.212  | Displaced fracture of cuboid bone of left foot   | Diagnosis     | ICD-10-CM |
| S92.212A | Displaced fracture of cuboid bone of left foot, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S92.212B | Displaced fracture of cuboid bone of left foot, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S92.212D | Displaced fracture of cuboid bone of left foot, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S92.212G | Displaced fracture of cuboid bone of left foot, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S92.212K | Displaced fracture of cuboid bone of left foot, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S92.212P | Displaced fracture of cuboid bone of left foot, subsequent encounter for fracture with malunion                    | Diagnosis     | ICD-10-CM |
| S92.212S | Displaced fracture of cuboid bone of left foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.213  | Displaced fracture of cuboid bone of unspecified foot  | Diagnosis     | ICD-10-CM |
| S92.213A | Displaced fracture of cuboid bone of unspecified foot, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S92.213B | Displaced fracture of cuboid bone of unspecified foot, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S92.213D | Displaced fracture of cuboid bone of unspecified foot, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.213G | Displaced fracture of cuboid bone of unspecified foot, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S92.213K | Displaced fracture of cuboid bone of unspecified foot, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S92.213P | Displaced fracture of cuboid bone of unspecified foot, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S92.213S | Displaced fracture of cuboid bone of unspecified foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.214  | Nondisplaced fracture of cuboid bone of right foot   | Diagnosis     | ICD-10-CM |
| S92.214A | Nondisplaced fracture of cuboid bone of right foot, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S92.214B | Nondisplaced fracture of cuboid bone of right foot, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S92.214D | Nondisplaced fracture of cuboid bone of right foot, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S92.214G | Nondisplaced fracture of cuboid bone of right foot, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.214K | Nondisplaced fracture of cuboid bone of right foot, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.214P | Nondisplaced fracture of cuboid bone of right foot, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.214S | Nondisplaced fracture of cuboid bone of right foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.215  | Nondisplaced fracture of cuboid bone of left foot  | Diagnosis     | ICD-10-CM |
| S92.215A | Nondisplaced fracture of cuboid bone of left foot, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.215B | Nondisplaced fracture of cuboid bone of left foot, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.215D | Nondisplaced fracture of cuboid bone of left foot, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.215G | Nondisplaced fracture of cuboid bone of left foot, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.215K | Nondisplaced fracture of cuboid bone of left foot, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.215P | Nondisplaced fracture of cuboid bone of left foot, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.215S | Nondisplaced fracture of cuboid bone of left foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.216  | Nondisplaced fracture of cuboid bone of unspecified foot   | Diagnosis     | ICD-10-CM |
| S92.216A | Nondisplaced fracture of cuboid bone of unspecified foot, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.216B | Nondisplaced fracture of cuboid bone of unspecified foot, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.216D | Nondisplaced fracture of cuboid bone of unspecified foot, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.216G | Nondisplaced fracture of cuboid bone of unspecified foot, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.216K | Nondisplaced fracture of cuboid bone of unspecified foot, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.216P | Nondisplaced fracture of cuboid bone of unspecified foot, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.216S | Nondisplaced fracture of cuboid bone of unspecified foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.22   | Fracture of lateral cuneiform  | Diagnosis     | ICD-10-CM |
| S92.221  | Displaced fracture of lateral cuneiform of right foot  | Diagnosis     | ICD-10-CM |
| S92.221A | Displaced fracture of lateral cuneiform of right foot, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S92.221B | Displaced fracture of lateral cuneiform of right foot, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S92.221D | Displaced fracture of lateral cuneiform of right foot, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S92.221G | Displaced fracture of lateral cuneiform of right foot, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.221K | Displaced fracture of lateral cuneiform of right foot, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.221P | Displaced fracture of lateral cuneiform of right foot, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.221S | Displaced fracture of lateral cuneiform of right foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.222  | Displaced fracture of lateral cuneiform of left foot  | Diagnosis     | ICD-10-CM |
| S92.222A | Displaced fracture of lateral cuneiform of left foot, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.222B | Displaced fracture of lateral cuneiform of left foot, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.222D | Displaced fracture of lateral cuneiform of left foot, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.222G | Displaced fracture of lateral cuneiform of left foot, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.222K | Displaced fracture of lateral cuneiform of left foot, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.222P | Displaced fracture of lateral cuneiform of left foot, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.222S | Displaced fracture of lateral cuneiform of left foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.223  | Displaced fracture of lateral cuneiform of unspecified foot   | Diagnosis     | ICD-10-CM |
| S92.223A | Displaced fracture of lateral cuneiform of unspecified foot, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.223B | Displaced fracture of lateral cuneiform of unspecified foot, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.223D | Displaced fracture of lateral cuneiform of unspecified foot, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.223G | Displaced fracture of lateral cuneiform of unspecified foot, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.223K | Displaced fracture of lateral cuneiform of unspecified foot, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.223P | Displaced fracture of lateral cuneiform of unspecified foot, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.223S | Displaced fracture of lateral cuneiform of unspecified foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.224  | Nondisplaced fracture of lateral cuneiform of right foot  | Diagnosis     | ICD-10-CM |
| S92.224A | Nondisplaced fracture of lateral cuneiform of right foot, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S92.224B | Nondisplaced fracture of lateral cuneiform of right foot, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S92.224D | Nondisplaced fracture of lateral cuneiform of right foot, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S92.224G | Nondisplaced fracture of lateral cuneiform of right foot, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S92.224K | Nondisplaced fracture of lateral cuneiform of right foot, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S92.224P | Nondisplaced fracture of lateral cuneiform of right foot, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S92.224S | Nondisplaced fracture of lateral cuneiform of right foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.225  | Nondisplaced fracture of lateral cuneiform of left foot   | Diagnosis     | ICD-10-CM |
| S92.225A | Nondisplaced fracture of lateral cuneiform of left foot, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S92.225B | Nondisplaced fracture of lateral cuneiform of left foot, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S92.225D | Nondisplaced fracture of lateral cuneiform of left foot, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.225G | Nondisplaced fracture of lateral cuneiform of left foot, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.225K | Nondisplaced fracture of lateral cuneiform of left foot, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.225P | Nondisplaced fracture of lateral cuneiform of left foot, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.225S | Nondisplaced fracture of lateral cuneiform of left foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.226  | Nondisplaced fracture of lateral cuneiform of unspecified foot   | Diagnosis     | ICD-10-CM |
| S92.226A | Nondisplaced fracture of lateral cuneiform of unspecified foot, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.226B | Nondisplaced fracture of lateral cuneiform of unspecified foot, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.226D | Nondisplaced fracture of lateral cuneiform of unspecified foot, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.226G | Nondisplaced fracture of lateral cuneiform of unspecified foot, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.226K | Nondisplaced fracture of lateral cuneiform of unspecified foot, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.226P | Nondisplaced fracture of lateral cuneiform of unspecified foot, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.226S | Nondisplaced fracture of lateral cuneiform of unspecified foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.23   | Fracture of intermediate cuneiform   | Diagnosis     | ICD-10-CM |
| S92.231  | Displaced fracture of intermediate cuneiform of right foot   | Diagnosis     | ICD-10-CM |
| S92.231A | Displaced fracture of intermediate cuneiform of right foot, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S92.231B | Displaced fracture of intermediate cuneiform of right foot, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S92.231D | Displaced fracture of intermediate cuneiform of right foot, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S92.231G | Displaced fracture of intermediate cuneiform of right foot, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S92.231K | Displaced fracture of intermediate cuneiform of right foot, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S92.231P | Displaced fracture of intermediate cuneiform of right foot, subsequent encounter for fracture with malunion            | Diagnosis     | ICD-10-CM |
| S92.231S | Displaced fracture of intermediate cuneiform of right foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.232  | Displaced fracture of intermediate cuneiform of left foot  | Diagnosis     | ICD-10-CM |
| S92.232A | Displaced fracture of intermediate cuneiform of left foot, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S92.232B | Displaced fracture of intermediate cuneiform of left foot, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S92.232D | Displaced fracture of intermediate cuneiform of left foot, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S92.232G | Displaced fracture of intermediate cuneiform of left foot, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S92.232K | Displaced fracture of intermediate cuneiform of left foot, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S92.232P | Displaced fracture of intermediate cuneiform of left foot, subsequent encounter for fracture with malunion             | Diagnosis     | ICD-10-CM |
| S92.232S | Displaced fracture of intermediate cuneiform of left foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.233  | Displaced fracture of intermediate cuneiform of unspecified foot   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S92.233A | Displaced fracture of intermediate cuneiform of unspecified foot, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S92.233B | Displaced fracture of intermediate cuneiform of unspecified foot, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S92.233D | Displaced fracture of intermediate cuneiform of unspecified foot, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S92.233G | Displaced fracture of intermediate cuneiform of unspecified foot, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S92.233K | Displaced fracture of intermediate cuneiform of unspecified foot, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S92.233P | Displaced fracture of intermediate cuneiform of unspecified foot, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S92.233S | Displaced fracture of intermediate cuneiform of unspecified foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.234  | Nondisplaced fracture of intermediate cuneiform of right foot   | Diagnosis     | ICD-10-CM |
| S92.234A | Nondisplaced fracture of intermediate cuneiform of right foot, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S92.234B | Nondisplaced fracture of intermediate cuneiform of right foot, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S92.234D | Nondisplaced fracture of intermediate cuneiform of right foot, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S92.234G | Nondisplaced fracture of intermediate cuneiform of right foot, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.234K | Nondisplaced fracture of intermediate cuneiform of right foot, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.234P | Nondisplaced fracture of intermediate cuneiform of right foot, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.234S | Nondisplaced fracture of intermediate cuneiform of right foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.235  | Nondisplaced fracture of intermediate cuneiform of left foot  | Diagnosis     | ICD-10-CM |
| S92.235A | Nondisplaced fracture of intermediate cuneiform of left foot, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.235B | Nondisplaced fracture of intermediate cuneiform of left foot, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.235D | Nondisplaced fracture of intermediate cuneiform of left foot, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.235G | Nondisplaced fracture of intermediate cuneiform of left foot, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.235K | Nondisplaced fracture of intermediate cuneiform of left foot, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.235P | Nondisplaced fracture of intermediate cuneiform of left foot, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.235S | Nondisplaced fracture of intermediate cuneiform of left foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.236  | Nondisplaced fracture of intermediate cuneiform of unspecified foot   | Diagnosis     | ICD-10-CM |
| S92.236A | Nondisplaced fracture of intermediate cuneiform of unspecified foot, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.236B | Nondisplaced fracture of intermediate cuneiform of unspecified foot, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.236D | Nondisplaced fracture of intermediate cuneiform of unspecified foot, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.236G | Nondisplaced fracture of intermediate cuneiform of unspecified foot, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.236K | Nondisplaced fracture of intermediate cuneiform of unspecified foot, subsequent encounter for fracture with nonunion | Diagnosis     | ICD-10-CM |
| S92.236P | Nondisplaced fracture of intermediate cuneiform of unspecified foot, subsequent encounter for fracture with malunion | Diagnosis     | ICD-10-CM |
| S92.236S | Nondisplaced fracture of intermediate cuneiform of unspecified foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.24   | Fracture of medial cuneiform   | Diagnosis     | ICD-10-CM |
| S92.241  | Displaced fracture of medial cuneiform of right foot   | Diagnosis     | ICD-10-CM |
| S92.241A | Displaced fracture of medial cuneiform of right foot, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S92.241B | Displaced fracture of medial cuneiform of right foot, initial encounter for open fracture                            | Diagnosis     | ICD-10-CM |
| S92.241D | Displaced fracture of medial cuneiform of right foot, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S92.241G | Displaced fracture of medial cuneiform of right foot, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S92.241K | Displaced fracture of medial cuneiform of right foot, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S92.241P | Displaced fracture of medial cuneiform of right foot, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S92.241S | Displaced fracture of medial cuneiform of right foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.242  | Displaced fracture of medial cuneiform of left foot  | Diagnosis     | ICD-10-CM |
| S92.242A | Displaced fracture of medial cuneiform of left foot, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S92.242B | Displaced fracture of medial cuneiform of left foot, initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |
| S92.242D | Displaced fracture of medial cuneiform of left foot, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S92.242G | Displaced fracture of medial cuneiform of left foot, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S92.242K | Displaced fracture of medial cuneiform of left foot, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S92.242P | Displaced fracture of medial cuneiform of left foot, subsequent encounter for fracture with malunion                 | Diagnosis     | ICD-10-CM |
| S92.242S | Displaced fracture of medial cuneiform of left foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.243  | Displaced fracture of medial cuneiform of unspecified foot   | Diagnosis     | ICD-10-CM |
| S92.243A | Displaced fracture of medial cuneiform of unspecified foot, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S92.243B | Displaced fracture of medial cuneiform of unspecified foot, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |
| S92.243D | Displaced fracture of medial cuneiform of unspecified foot, subsequent encounter for fracture with routine healing   | Diagnosis     | ICD-10-CM |
| S92.243G | Displaced fracture of medial cuneiform of unspecified foot, subsequent encounter for fracture with delayed healing   | Diagnosis     | ICD-10-CM |
| S92.243K | Displaced fracture of medial cuneiform of unspecified foot, subsequent encounter for fracture with nonunion          | Diagnosis     | ICD-10-CM |
| S92.243P | Displaced fracture of medial cuneiform of unspecified foot, subsequent encounter for fracture with malunion          | Diagnosis     | ICD-10-CM |
| S92.243S | Displaced fracture of medial cuneiform of unspecified foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.244  | Nondisplaced fracture of medial cuneiform of right foot  | Diagnosis     | ICD-10-CM |
| S92.244A | Nondisplaced fracture of medial cuneiform of right foot, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S92.244B | Nondisplaced fracture of medial cuneiform of right foot, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S92.244D | Nondisplaced fracture of medial cuneiform of right foot, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S92.244G | Nondisplaced fracture of medial cuneiform of right foot, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.244K | Nondisplaced fracture of medial cuneiform of right foot, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.244P | Nondisplaced fracture of medial cuneiform of right foot, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.244S | Nondisplaced fracture of medial cuneiform of right foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.245  | Nondisplaced fracture of medial cuneiform of left foot  | Diagnosis     | ICD-10-CM |
| S92.245A | Nondisplaced fracture of medial cuneiform of left foot, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.245B | Nondisplaced fracture of medial cuneiform of left foot, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.245D | Nondisplaced fracture of medial cuneiform of left foot, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.245G | Nondisplaced fracture of medial cuneiform of left foot, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.245K | Nondisplaced fracture of medial cuneiform of left foot, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.245P | Nondisplaced fracture of medial cuneiform of left foot, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.245S | Nondisplaced fracture of medial cuneiform of left foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.246  | Nondisplaced fracture of medial cuneiform of unspecified foot   | Diagnosis     | ICD-10-CM |
| S92.246A | Nondisplaced fracture of medial cuneiform of unspecified foot, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.246B | Nondisplaced fracture of medial cuneiform of unspecified foot, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.246D | Nondisplaced fracture of medial cuneiform of unspecified foot, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.246G | Nondisplaced fracture of medial cuneiform of unspecified foot, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.246K | Nondisplaced fracture of medial cuneiform of unspecified foot, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.246P | Nondisplaced fracture of medial cuneiform of unspecified foot, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.246S | Nondisplaced fracture of medial cuneiform of unspecified foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.25   | Fracture of navicular [scaphoid] of foot  | Diagnosis     | ICD-10-CM |
| S92.251  | Displaced fracture of navicular [scaphoid] of right foot  | Diagnosis     | ICD-10-CM |
| S92.251A | Displaced fracture of navicular [scaphoid] of right foot, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S92.251B | Displaced fracture of navicular [scaphoid] of right foot, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S92.251D | Displaced fracture of navicular [scaphoid] of right foot, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S92.251G | Displaced fracture of navicular [scaphoid] of right foot, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S92.251K | Displaced fracture of navicular [scaphoid] of right foot, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S92.251P | Displaced fracture of navicular [scaphoid] of right foot, subsequent encounter for fracture with malunion             | Diagnosis     | ICD-10-CM |
| S92.251S | Displaced fracture of navicular [scaphoid] of right foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.252  | Displaced fracture of navicular [scaphoid] of left foot   | Diagnosis     | ICD-10-CM |
| S92.252A | Displaced fracture of navicular [scaphoid] of left foot, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S92.252B | Displaced fracture of navicular [scaphoid] of left foot, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.252D | Displaced fracture of navicular [scaphoid] of left foot, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.252G | Displaced fracture of navicular [scaphoid] of left foot, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.252K | Displaced fracture of navicular [scaphoid] of left foot, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.252P | Displaced fracture of navicular [scaphoid] of left foot, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.252S | Displaced fracture of navicular [scaphoid] of left foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.253  | Displaced fracture of navicular [scaphoid] of unspecified foot   | Diagnosis     | ICD-10-CM |
| S92.253A | Displaced fracture of navicular [scaphoid] of unspecified foot, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.253B | Displaced fracture of navicular [scaphoid] of unspecified foot, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.253D | Displaced fracture of navicular [scaphoid] of unspecified foot, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.253G | Displaced fracture of navicular [scaphoid] of unspecified foot, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.253K | Displaced fracture of navicular [scaphoid] of unspecified foot, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.253P | Displaced fracture of navicular [scaphoid] of unspecified foot, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.253S | Displaced fracture of navicular [scaphoid] of unspecified foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.254  | Nondisplaced fracture of navicular [scaphoid] of right foot  | Diagnosis     | ICD-10-CM |
| S92.254A | Nondisplaced fracture of navicular [scaphoid] of right foot, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S92.254B | Nondisplaced fracture of navicular [scaphoid] of right foot, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S92.254D | Nondisplaced fracture of navicular [scaphoid] of right foot, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S92.254G | Nondisplaced fracture of navicular [scaphoid] of right foot, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S92.254K | Nondisplaced fracture of navicular [scaphoid] of right foot, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S92.254P | Nondisplaced fracture of navicular [scaphoid] of right foot, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S92.254S | Nondisplaced fracture of navicular [scaphoid] of right foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.255  | Nondisplaced fracture of navicular [scaphoid] of left foot   | Diagnosis     | ICD-10-CM |
| S92.255A | Nondisplaced fracture of navicular [scaphoid] of left foot, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S92.255B | Nondisplaced fracture of navicular [scaphoid] of left foot, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S92.255D | Nondisplaced fracture of navicular [scaphoid] of left foot, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S92.255G | Nondisplaced fracture of navicular [scaphoid] of left foot, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S92.255K | Nondisplaced fracture of navicular [scaphoid] of left foot, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S92.255P | Nondisplaced fracture of navicular [scaphoid] of left foot, subsequent encounter for fracture with malunion            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S92.255S | Nondisplaced fracture of navicular [scaphoid] of left foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.256  | Nondisplaced fracture of navicular [scaphoid] of unspecified foot   | Diagnosis     | ICD-10-CM |
| S92.256A | Nondisplaced fracture of navicular [scaphoid] of unspecified foot, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.256B | Nondisplaced fracture of navicular [scaphoid] of unspecified foot, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.256D | Nondisplaced fracture of navicular [scaphoid] of unspecified foot, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.256G | Nondisplaced fracture of navicular [scaphoid] of unspecified foot, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.256K | Nondisplaced fracture of navicular [scaphoid] of unspecified foot, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.256P | Nondisplaced fracture of navicular [scaphoid] of unspecified foot, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.256S | Nondisplaced fracture of navicular [scaphoid] of unspecified foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.3    | Fracture of metatarsal bone(s)  | Diagnosis     | ICD-10-CM |
| S92.30   | Fracture of unspecified metatarsal bone(s)  | Diagnosis     | ICD-10-CM |
| S92.301  | Fracture of unspecified metatarsal bone(s), right foot  | Diagnosis     | ICD-10-CM |
| S92.301A | Fracture of unspecified metatarsal bone(s), right foot, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S92.301B | Fracture of unspecified metatarsal bone(s), right foot, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S92.301D | Fracture of unspecified metatarsal bone(s), right foot, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S92.301G | Fracture of unspecified metatarsal bone(s), right foot, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S92.301K | Fracture of unspecified metatarsal bone(s), right foot, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S92.301P | Fracture of unspecified metatarsal bone(s), right foot, subsequent encounter for fracture with malunion                   | Diagnosis     | ICD-10-CM |
| S92.301S | Fracture of unspecified metatarsal bone(s), right foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.302  | Fracture of unspecified metatarsal bone(s), left foot   | Diagnosis     | ICD-10-CM |
| S92.302A | Fracture of unspecified metatarsal bone(s), left foot, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S92.302B | Fracture of unspecified metatarsal bone(s), left foot, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S92.302D | Fracture of unspecified metatarsal bone(s), left foot, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S92.302G | Fracture of unspecified metatarsal bone(s), left foot, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S92.302K | Fracture of unspecified metatarsal bone(s), left foot, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S92.302P | Fracture of unspecified metatarsal bone(s), left foot, subsequent encounter for fracture with malunion                    | Diagnosis     | ICD-10-CM |
| S92.302S | Fracture of unspecified metatarsal bone(s), left foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.309  | Fracture of unspecified metatarsal bone(s), unspecified foot  | Diagnosis     | ICD-10-CM |
| S92.309A | Fracture of unspecified metatarsal bone(s), unspecified foot, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S92.309B | Fracture of unspecified metatarsal bone(s), unspecified foot, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S92.309D | Fracture of unspecified metatarsal bone(s), unspecified foot, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S92.309G | Fracture of unspecified metatarsal bone(s), unspecified foot, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S92.309K | Fracture of unspecified metatarsal bone(s), unspecified foot, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S92.309P | Fracture of unspecified metatarsal bone(s), unspecified foot, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S92.309S | Fracture of unspecified metatarsal bone(s), unspecified foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.31   | Fracture of first metatarsal bone   | Diagnosis     | ICD-10-CM |
| S92.311  | Displaced fracture of first metatarsal bone, right foot   | Diagnosis     | ICD-10-CM |
| S92.311A | Displaced fracture of first metatarsal bone, right foot, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S92.311B | Displaced fracture of first metatarsal bone, right foot, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S92.311D | Displaced fracture of first metatarsal bone, right foot, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S92.311G | Displaced fracture of first metatarsal bone, right foot, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.311K | Displaced fracture of first metatarsal bone, right foot, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.311P | Displaced fracture of first metatarsal bone, right foot, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.311S | Displaced fracture of first metatarsal bone, right foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.312  | Displaced fracture of first metatarsal bone, left foot  | Diagnosis     | ICD-10-CM |
| S92.312A | Displaced fracture of first metatarsal bone, left foot, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.312B | Displaced fracture of first metatarsal bone, left foot, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.312D | Displaced fracture of first metatarsal bone, left foot, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.312G | Displaced fracture of first metatarsal bone, left foot, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.312K | Displaced fracture of first metatarsal bone, left foot, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.312P | Displaced fracture of first metatarsal bone, left foot, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.312S | Displaced fracture of first metatarsal bone, left foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.313  | Displaced fracture of first metatarsal bone, unspecified foot   | Diagnosis     | ICD-10-CM |
| S92.313A | Displaced fracture of first metatarsal bone, unspecified foot, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.313B | Displaced fracture of first metatarsal bone, unspecified foot, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.313D | Displaced fracture of first metatarsal bone, unspecified foot, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.313G | Displaced fracture of first metatarsal bone, unspecified foot, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.313K | Displaced fracture of first metatarsal bone, unspecified foot, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.313P | Displaced fracture of first metatarsal bone, unspecified foot, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.313S | Displaced fracture of first metatarsal bone, unspecified foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.314  | Nondisplaced fracture of first metatarsal bone, right foot  | Diagnosis     | ICD-10-CM |
| S92.314A | Nondisplaced fracture of first metatarsal bone, right foot, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S92.314B | Nondisplaced fracture of first metatarsal bone, right foot, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S92.314D | Nondisplaced fracture of first metatarsal bone, right foot, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.314G | Nondisplaced fracture of first metatarsal bone, right foot, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.314K | Nondisplaced fracture of first metatarsal bone, right foot, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.314P | Nondisplaced fracture of first metatarsal bone, right foot, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.314S | Nondisplaced fracture of first metatarsal bone, right foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.315  | Nondisplaced fracture of first metatarsal bone, left foot  | Diagnosis     | ICD-10-CM |
| S92.315A | Nondisplaced fracture of first metatarsal bone, left foot, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.315B | Nondisplaced fracture of first metatarsal bone, left foot, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.315D | Nondisplaced fracture of first metatarsal bone, left foot, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.315G | Nondisplaced fracture of first metatarsal bone, left foot, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.315K | Nondisplaced fracture of first metatarsal bone, left foot, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.315P | Nondisplaced fracture of first metatarsal bone, left foot, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.315S | Nondisplaced fracture of first metatarsal bone, left foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.316  | Nondisplaced fracture of first metatarsal bone, unspecified foot   | Diagnosis     | ICD-10-CM |
| S92.316A | Nondisplaced fracture of first metatarsal bone, unspecified foot, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.316B | Nondisplaced fracture of first metatarsal bone, unspecified foot, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.316D | Nondisplaced fracture of first metatarsal bone, unspecified foot, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.316G | Nondisplaced fracture of first metatarsal bone, unspecified foot, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.316K | Nondisplaced fracture of first metatarsal bone, unspecified foot, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.316P | Nondisplaced fracture of first metatarsal bone, unspecified foot, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.316S | Nondisplaced fracture of first metatarsal bone, unspecified foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.32   | Fracture of second metatarsal bone   | Diagnosis     | ICD-10-CM |
| S92.321  | Displaced fracture of second metatarsal bone, right foot   | Diagnosis     | ICD-10-CM |
| S92.321A | Displaced fracture of second metatarsal bone, right foot, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S92.321B | Displaced fracture of second metatarsal bone, right foot, initial encounter for open fracture                            | Diagnosis     | ICD-10-CM |
| S92.321D | Displaced fracture of second metatarsal bone, right foot, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S92.321G | Displaced fracture of second metatarsal bone, right foot, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S92.321K | Displaced fracture of second metatarsal bone, right foot, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S92.321P | Displaced fracture of second metatarsal bone, right foot, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S92.321S | Displaced fracture of second metatarsal bone, right foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.322  | Displaced fracture of second metatarsal bone, left foot  | Diagnosis     | ICD-10-CM |
| S92.322A | Displaced fracture of second metatarsal bone, left foot, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S92.322B | Displaced fracture of second metatarsal bone, left foot, initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.322D | Displaced fracture of second metatarsal bone, left foot, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.322G | Displaced fracture of second metatarsal bone, left foot, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.322K | Displaced fracture of second metatarsal bone, left foot, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.322P | Displaced fracture of second metatarsal bone, left foot, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.322S | Displaced fracture of second metatarsal bone, left foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.323  | Displaced fracture of second metatarsal bone, unspecified foot   | Diagnosis     | ICD-10-CM |
| S92.323A | Displaced fracture of second metatarsal bone, unspecified foot, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.323B | Displaced fracture of second metatarsal bone, unspecified foot, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.323D | Displaced fracture of second metatarsal bone, unspecified foot, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.323G | Displaced fracture of second metatarsal bone, unspecified foot, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.323K | Displaced fracture of second metatarsal bone, unspecified foot, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.323P | Displaced fracture of second metatarsal bone, unspecified foot, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.323S | Displaced fracture of second metatarsal bone, unspecified foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.324  | Nondisplaced fracture of second metatarsal bone, right foot  | Diagnosis     | ICD-10-CM |
| S92.324A | Nondisplaced fracture of second metatarsal bone, right foot, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S92.324B | Nondisplaced fracture of second metatarsal bone, right foot, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S92.324D | Nondisplaced fracture of second metatarsal bone, right foot, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S92.324G | Nondisplaced fracture of second metatarsal bone, right foot, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S92.324K | Nondisplaced fracture of second metatarsal bone, right foot, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S92.324P | Nondisplaced fracture of second metatarsal bone, right foot, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S92.324S | Nondisplaced fracture of second metatarsal bone, right foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.325  | Nondisplaced fracture of second metatarsal bone, left foot   | Diagnosis     | ICD-10-CM |
| S92.325A | Nondisplaced fracture of second metatarsal bone, left foot, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S92.325B | Nondisplaced fracture of second metatarsal bone, left foot, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S92.325D | Nondisplaced fracture of second metatarsal bone, left foot, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S92.325G | Nondisplaced fracture of second metatarsal bone, left foot, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S92.325K | Nondisplaced fracture of second metatarsal bone, left foot, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S92.325P | Nondisplaced fracture of second metatarsal bone, left foot, subsequent encounter for fracture with malunion            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S92.325S | Nondisplaced fracture of second metatarsal bone, left foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.326  | Nondisplaced fracture of second metatarsal bone, unspecified foot   | Diagnosis     | ICD-10-CM |
| S92.326A | Nondisplaced fracture of second metatarsal bone, unspecified foot, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.326B | Nondisplaced fracture of second metatarsal bone, unspecified foot, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.326D | Nondisplaced fracture of second metatarsal bone, unspecified foot, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.326G | Nondisplaced fracture of second metatarsal bone, unspecified foot, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.326K | Nondisplaced fracture of second metatarsal bone, unspecified foot, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.326P | Nondisplaced fracture of second metatarsal bone, unspecified foot, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.326S | Nondisplaced fracture of second metatarsal bone, unspecified foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.33   | Fracture of third metatarsal bone   | Diagnosis     | ICD-10-CM |
| S92.331  | Displaced fracture of third metatarsal bone, right foot   | Diagnosis     | ICD-10-CM |
| S92.331A | Displaced fracture of third metatarsal bone, right foot, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S92.331B | Displaced fracture of third metatarsal bone, right foot, initial encounter for open fracture                              | Diagnosis     | ICD-10-CM |
| S92.331D | Displaced fracture of third metatarsal bone, right foot, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S92.331G | Displaced fracture of third metatarsal bone, right foot, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S92.331K | Displaced fracture of third metatarsal bone, right foot, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S92.331P | Displaced fracture of third metatarsal bone, right foot, subsequent encounter for fracture with malunion                  | Diagnosis     | ICD-10-CM |
| S92.331S | Displaced fracture of third metatarsal bone, right foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.332  | Displaced fracture of third metatarsal bone, left foot  | Diagnosis     | ICD-10-CM |
| S92.332A | Displaced fracture of third metatarsal bone, left foot, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S92.332B | Displaced fracture of third metatarsal bone, left foot, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S92.332D | Displaced fracture of third metatarsal bone, left foot, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S92.332G | Displaced fracture of third metatarsal bone, left foot, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S92.332K | Displaced fracture of third metatarsal bone, left foot, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S92.332P | Displaced fracture of third metatarsal bone, left foot, subsequent encounter for fracture with malunion                   | Diagnosis     | ICD-10-CM |
| S92.332S | Displaced fracture of third metatarsal bone, left foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.333  | Displaced fracture of third metatarsal bone, unspecified foot   | Diagnosis     | ICD-10-CM |
| S92.333A | Displaced fracture of third metatarsal bone, unspecified foot, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S92.333B | Displaced fracture of third metatarsal bone, unspecified foot, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S92.333D | Displaced fracture of third metatarsal bone, unspecified foot, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S92.333G | Displaced fracture of third metatarsal bone, unspecified foot, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.333K | Displaced fracture of third metatarsal bone, unspecified foot, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S92.333P | Displaced fracture of third metatarsal bone, unspecified foot, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S92.333S | Displaced fracture of third metatarsal bone, unspecified foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.334  | Nondisplaced fracture of third metatarsal bone, right foot   | Diagnosis     | ICD-10-CM |
| S92.334A | Nondisplaced fracture of third metatarsal bone, right foot, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S92.334B | Nondisplaced fracture of third metatarsal bone, right foot, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S92.334D | Nondisplaced fracture of third metatarsal bone, right foot, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S92.334G | Nondisplaced fracture of third metatarsal bone, right foot, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.334K | Nondisplaced fracture of third metatarsal bone, right foot, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.334P | Nondisplaced fracture of third metatarsal bone, right foot, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.334S | Nondisplaced fracture of third metatarsal bone, right foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.335  | Nondisplaced fracture of third metatarsal bone, left foot  | Diagnosis     | ICD-10-CM |
| S92.335A | Nondisplaced fracture of third metatarsal bone, left foot, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.335B | Nondisplaced fracture of third metatarsal bone, left foot, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.335D | Nondisplaced fracture of third metatarsal bone, left foot, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.335G | Nondisplaced fracture of third metatarsal bone, left foot, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.335K | Nondisplaced fracture of third metatarsal bone, left foot, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.335P | Nondisplaced fracture of third metatarsal bone, left foot, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.335S | Nondisplaced fracture of third metatarsal bone, left foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.336  | Nondisplaced fracture of third metatarsal bone, unspecified foot   | Diagnosis     | ICD-10-CM |
| S92.336A | Nondisplaced fracture of third metatarsal bone, unspecified foot, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.336B | Nondisplaced fracture of third metatarsal bone, unspecified foot, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.336D | Nondisplaced fracture of third metatarsal bone, unspecified foot, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.336G | Nondisplaced fracture of third metatarsal bone, unspecified foot, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.336K | Nondisplaced fracture of third metatarsal bone, unspecified foot, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.336P | Nondisplaced fracture of third metatarsal bone, unspecified foot, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.336S | Nondisplaced fracture of third metatarsal bone, unspecified foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.34   | Fracture of fourth metatarsal bone   | Diagnosis     | ICD-10-CM |
| S92.341  | Displaced fracture of fourth metatarsal bone, right foot   | Diagnosis     | ICD-10-CM |
| S92.341A | Displaced fracture of fourth metatarsal bone, right foot, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S92.341B | Displaced fracture of fourth metatarsal bone, right foot, initial encounter for open fracture                            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.341D | Displaced fracture of fourth metatarsal bone, right foot, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S92.341G | Displaced fracture of fourth metatarsal bone, right foot, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.341K | Displaced fracture of fourth metatarsal bone, right foot, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.341P | Displaced fracture of fourth metatarsal bone, right foot, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.341S | Displaced fracture of fourth metatarsal bone, right foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.342  | Displaced fracture of fourth metatarsal bone, left foot  | Diagnosis     | ICD-10-CM |
| S92.342A | Displaced fracture of fourth metatarsal bone, left foot, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.342B | Displaced fracture of fourth metatarsal bone, left foot, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.342D | Displaced fracture of fourth metatarsal bone, left foot, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.342G | Displaced fracture of fourth metatarsal bone, left foot, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.342K | Displaced fracture of fourth metatarsal bone, left foot, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.342P | Displaced fracture of fourth metatarsal bone, left foot, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.342S | Displaced fracture of fourth metatarsal bone, left foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.343  | Displaced fracture of fourth metatarsal bone, unspecified foot   | Diagnosis     | ICD-10-CM |
| S92.343A | Displaced fracture of fourth metatarsal bone, unspecified foot, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.343B | Displaced fracture of fourth metatarsal bone, unspecified foot, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.343D | Displaced fracture of fourth metatarsal bone, unspecified foot, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.343G | Displaced fracture of fourth metatarsal bone, unspecified foot, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.343K | Displaced fracture of fourth metatarsal bone, unspecified foot, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.343P | Displaced fracture of fourth metatarsal bone, unspecified foot, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.343S | Displaced fracture of fourth metatarsal bone, unspecified foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.344  | Nondisplaced fracture of fourth metatarsal bone, right foot  | Diagnosis     | ICD-10-CM |
| S92.344A | Nondisplaced fracture of fourth metatarsal bone, right foot, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S92.344B | Nondisplaced fracture of fourth metatarsal bone, right foot, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S92.344D | Nondisplaced fracture of fourth metatarsal bone, right foot, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S92.344G | Nondisplaced fracture of fourth metatarsal bone, right foot, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S92.344K | Nondisplaced fracture of fourth metatarsal bone, right foot, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S92.344P | Nondisplaced fracture of fourth metatarsal bone, right foot, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S92.344S | Nondisplaced fracture of fourth metatarsal bone, right foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.345  | Nondisplaced fracture of fourth metatarsal bone, left foot   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S92.345A | Nondisplaced fracture of fourth metatarsal bone, left foot, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.345B | Nondisplaced fracture of fourth metatarsal bone, left foot, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.345D | Nondisplaced fracture of fourth metatarsal bone, left foot, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.345G | Nondisplaced fracture of fourth metatarsal bone, left foot, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.345K | Nondisplaced fracture of fourth metatarsal bone, left foot, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.345P | Nondisplaced fracture of fourth metatarsal bone, left foot, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.345S | Nondisplaced fracture of fourth metatarsal bone, left foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.346  | Nondisplaced fracture of fourth metatarsal bone, unspecified foot   | Diagnosis     | ICD-10-CM |
| S92.346A | Nondisplaced fracture of fourth metatarsal bone, unspecified foot, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.346B | Nondisplaced fracture of fourth metatarsal bone, unspecified foot, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.346D | Nondisplaced fracture of fourth metatarsal bone, unspecified foot, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.346G | Nondisplaced fracture of fourth metatarsal bone, unspecified foot, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.346K | Nondisplaced fracture of fourth metatarsal bone, unspecified foot, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.346P | Nondisplaced fracture of fourth metatarsal bone, unspecified foot, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.346S | Nondisplaced fracture of fourth metatarsal bone, unspecified foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.35   | Fracture of fifth metatarsal bone   | Diagnosis     | ICD-10-CM |
| S92.351  | Displaced fracture of fifth metatarsal bone, right foot   | Diagnosis     | ICD-10-CM |
| S92.351A | Displaced fracture of fifth metatarsal bone, right foot, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S92.351B | Displaced fracture of fifth metatarsal bone, right foot, initial encounter for open fracture                              | Diagnosis     | ICD-10-CM |
| S92.351D | Displaced fracture of fifth metatarsal bone, right foot, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S92.351G | Displaced fracture of fifth metatarsal bone, right foot, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S92.351K | Displaced fracture of fifth metatarsal bone, right foot, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S92.351P | Displaced fracture of fifth metatarsal bone, right foot, subsequent encounter for fracture with malunion                  | Diagnosis     | ICD-10-CM |
| S92.351S | Displaced fracture of fifth metatarsal bone, right foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.352  | Displaced fracture of fifth metatarsal bone, left foot  | Diagnosis     | ICD-10-CM |
| S92.352A | Displaced fracture of fifth metatarsal bone, left foot, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S92.352B | Displaced fracture of fifth metatarsal bone, left foot, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S92.352D | Displaced fracture of fifth metatarsal bone, left foot, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S92.352G | Displaced fracture of fifth metatarsal bone, left foot, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S92.352K | Displaced fracture of fifth metatarsal bone, left foot, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.352P | Displaced fracture of fifth metatarsal bone, left foot, subsequent encounter for fracture with malunion                  | Diagnosis     | ICD-10-CM |
| S92.352S | Displaced fracture of fifth metatarsal bone, left foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.353  | Displaced fracture of fifth metatarsal bone, unspecified foot  | Diagnosis     | ICD-10-CM |
| S92.353A | Displaced fracture of fifth metatarsal bone, unspecified foot, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S92.353B | Displaced fracture of fifth metatarsal bone, unspecified foot, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S92.353D | Displaced fracture of fifth metatarsal bone, unspecified foot, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S92.353G | Displaced fracture of fifth metatarsal bone, unspecified foot, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S92.353K | Displaced fracture of fifth metatarsal bone, unspecified foot, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S92.353P | Displaced fracture of fifth metatarsal bone, unspecified foot, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S92.353S | Displaced fracture of fifth metatarsal bone, unspecified foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.354  | Nondisplaced fracture of fifth metatarsal bone, right foot   | Diagnosis     | ICD-10-CM |
| S92.354A | Nondisplaced fracture of fifth metatarsal bone, right foot, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S92.354B | Nondisplaced fracture of fifth metatarsal bone, right foot, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S92.354D | Nondisplaced fracture of fifth metatarsal bone, right foot, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S92.354G | Nondisplaced fracture of fifth metatarsal bone, right foot, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.354K | Nondisplaced fracture of fifth metatarsal bone, right foot, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.354P | Nondisplaced fracture of fifth metatarsal bone, right foot, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.354S | Nondisplaced fracture of fifth metatarsal bone, right foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.355  | Nondisplaced fracture of fifth metatarsal bone, left foot  | Diagnosis     | ICD-10-CM |
| S92.355A | Nondisplaced fracture of fifth metatarsal bone, left foot, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.355B | Nondisplaced fracture of fifth metatarsal bone, left foot, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.355D | Nondisplaced fracture of fifth metatarsal bone, left foot, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.355G | Nondisplaced fracture of fifth metatarsal bone, left foot, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.355K | Nondisplaced fracture of fifth metatarsal bone, left foot, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.355P | Nondisplaced fracture of fifth metatarsal bone, left foot, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.355S | Nondisplaced fracture of fifth metatarsal bone, left foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.356  | Nondisplaced fracture of fifth metatarsal bone, unspecified foot   | Diagnosis     | ICD-10-CM |
| S92.356A | Nondisplaced fracture of fifth metatarsal bone, unspecified foot, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.356B | Nondisplaced fracture of fifth metatarsal bone, unspecified foot, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.356D | Nondisplaced fracture of fifth metatarsal bone, unspecified foot, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.356G | Nondisplaced fracture of fifth metatarsal bone, unspecified foot, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.356K | Nondisplaced fracture of fifth metatarsal bone, unspecified foot, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.356P | Nondisplaced fracture of fifth metatarsal bone, unspecified foot, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.356S | Nondisplaced fracture of fifth metatarsal bone, unspecified foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.4    | Fracture of great toe  | Diagnosis     | ICD-10-CM |
| S92.40   | Unspecified fracture of great toe  | Diagnosis     | ICD-10-CM |
| S92.401  | Displaced unspecified fracture of right great toe  | Diagnosis     | ICD-10-CM |
| S92.401A | Displaced unspecified fracture of right great toe, initial encounter for closed fracture                                 | Diagnosis     | ICD-10-CM |
| S92.401B | Displaced unspecified fracture of right great toe, initial encounter for open fracture                                   | Diagnosis     | ICD-10-CM |
| S92.401D | Displaced unspecified fracture of right great toe, subsequent encounter for fracture with routine healing                | Diagnosis     | ICD-10-CM |
| S92.401G | Displaced unspecified fracture of right great toe, subsequent encounter for fracture with delayed healing                | Diagnosis     | ICD-10-CM |
| S92.401K | Displaced unspecified fracture of right great toe, subsequent encounter for fracture with nonunion                       | Diagnosis     | ICD-10-CM |
| S92.401P | Displaced unspecified fracture of right great toe, subsequent encounter for fracture with malunion                       | Diagnosis     | ICD-10-CM |
| S92.401S | Displaced unspecified fracture of right great toe, sequela   | Diagnosis     | ICD-10-CM |
| S92.402  | Displaced unspecified fracture of left great toe   | Diagnosis     | ICD-10-CM |
| S92.402A | Displaced unspecified fracture of left great toe, initial encounter for closed fracture                                  | Diagnosis     | ICD-10-CM |
| S92.402B | Displaced unspecified fracture of left great toe, initial encounter for open fracture                                    | Diagnosis     | ICD-10-CM |
| S92.402D | Displaced unspecified fracture of left great toe, subsequent encounter for fracture with routine healing                 | Diagnosis     | ICD-10-CM |
| S92.402G | Displaced unspecified fracture of left great toe, subsequent encounter for fracture with delayed healing                 | Diagnosis     | ICD-10-CM |
| S92.402K | Displaced unspecified fracture of left great toe, subsequent encounter for fracture with nonunion                        | Diagnosis     | ICD-10-CM |
| S92.402P | Displaced unspecified fracture of left great toe, subsequent encounter for fracture with malunion                        | Diagnosis     | ICD-10-CM |
| S92.402S | Displaced unspecified fracture of left great toe, sequela  | Diagnosis     | ICD-10-CM |
| S92.403  | Displaced unspecified fracture of unspecified great toe  | Diagnosis     | ICD-10-CM |
| S92.403A | Displaced unspecified fracture of unspecified great toe, initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S92.403B | Displaced unspecified fracture of unspecified great toe, initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |
| S92.403D | Displaced unspecified fracture of unspecified great toe, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S92.403G | Displaced unspecified fracture of unspecified great toe, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S92.403K | Displaced unspecified fracture of unspecified great toe, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S92.403P | Displaced unspecified fracture of unspecified great toe, subsequent encounter for fracture with malunion                 | Diagnosis     | ICD-10-CM |
| S92.403S | Displaced unspecified fracture of unspecified great toe, sequela   | Diagnosis     | ICD-10-CM |
| S92.404  | Nondisplaced unspecified fracture of right great toe   | Diagnosis     | ICD-10-CM |
| S92.404A | Nondisplaced unspecified fracture of right great toe, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S92.404B | Nondisplaced unspecified fracture of right great toe, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S92.404D | Nondisplaced unspecified fracture of right great toe, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.404G | Nondisplaced unspecified fracture of right great toe, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.404K | Nondisplaced unspecified fracture of right great toe, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.404P | Nondisplaced unspecified fracture of right great toe, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.404S | Nondisplaced unspecified fracture of right great toe, sequela  | Diagnosis     | ICD-10-CM |
| S92.405  | Nondisplaced unspecified fracture of left great toe  | Diagnosis     | ICD-10-CM |
| S92.405A | Nondisplaced unspecified fracture of left great toe, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.405B | Nondisplaced unspecified fracture of left great toe, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.405D | Nondisplaced unspecified fracture of left great toe, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.405G | Nondisplaced unspecified fracture of left great toe, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.405K | Nondisplaced unspecified fracture of left great toe, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.405P | Nondisplaced unspecified fracture of left great toe, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.405S | Nondisplaced unspecified fracture of left great toe, sequela   | Diagnosis     | ICD-10-CM |
| S92.406  | Nondisplaced unspecified fracture of unspecified great toe   | Diagnosis     | ICD-10-CM |
| S92.406A | Nondisplaced unspecified fracture of unspecified great toe, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.406B | Nondisplaced unspecified fracture of unspecified great toe, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.406D | Nondisplaced unspecified fracture of unspecified great toe, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.406G | Nondisplaced unspecified fracture of unspecified great toe, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.406K | Nondisplaced unspecified fracture of unspecified great toe, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.406P | Nondisplaced unspecified fracture of unspecified great toe, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.406S | Nondisplaced unspecified fracture of unspecified great toe, sequela  | Diagnosis     | ICD-10-CM |
| S92.41   | Fracture of proximal phalanx of great toe  | Diagnosis     | ICD-10-CM |
| S92.411  | Displaced fracture of proximal phalanx of right great toe  | Diagnosis     | ICD-10-CM |
| S92.411A | Displaced fracture of proximal phalanx of right great toe, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S92.411B | Displaced fracture of proximal phalanx of right great toe, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S92.411D | Displaced fracture of proximal phalanx of right great toe, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S92.411G | Displaced fracture of proximal phalanx of right great toe, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S92.411K | Displaced fracture of proximal phalanx of right great toe, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S92.411P | Displaced fracture of proximal phalanx of right great toe, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S92.411S | Displaced fracture of proximal phalanx of right great toe, sequela   | Diagnosis     | ICD-10-CM |
| S92.412  | Displaced fracture of proximal phalanx of left great toe   | Diagnosis     | ICD-10-CM |
| S92.412A | Displaced fracture of proximal phalanx of left great toe, initial encounter for closed fracture                    | Diagnosis     | ICD-10-CM |
| S92.412B | Displaced fracture of proximal phalanx of left great toe, initial encounter for open fracture                      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S92.412D | Displaced fracture of proximal phalanx of left great toe, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.412G | Displaced fracture of proximal phalanx of left great toe, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.412K | Displaced fracture of proximal phalanx of left great toe, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.412P | Displaced fracture of proximal phalanx of left great toe, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.412S | Displaced fracture of proximal phalanx of left great toe, sequela   | Diagnosis     | ICD-10-CM |
| S92.413  | Displaced fracture of proximal phalanx of unspecified great toe   | Diagnosis     | ICD-10-CM |
| S92.413A | Displaced fracture of proximal phalanx of unspecified great toe, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.413B | Displaced fracture of proximal phalanx of unspecified great toe, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.413D | Displaced fracture of proximal phalanx of unspecified great toe, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.413G | Displaced fracture of proximal phalanx of unspecified great toe, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.413K | Displaced fracture of proximal phalanx of unspecified great toe, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.413P | Displaced fracture of proximal phalanx of unspecified great toe, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.413S | Displaced fracture of proximal phalanx of unspecified great toe, sequela  | Diagnosis     | ICD-10-CM |
| S92.414  | Nondisplaced fracture of proximal phalanx of right great toe  | Diagnosis     | ICD-10-CM |
| S92.414A | Nondisplaced fracture of proximal phalanx of right great toe, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S92.414B | Nondisplaced fracture of proximal phalanx of right great toe, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S92.414D | Nondisplaced fracture of proximal phalanx of right great toe, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S92.414G | Nondisplaced fracture of proximal phalanx of right great toe, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S92.414K | Nondisplaced fracture of proximal phalanx of right great toe, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S92.414P | Nondisplaced fracture of proximal phalanx of right great toe, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S92.414S | Nondisplaced fracture of proximal phalanx of right great toe, sequela   | Diagnosis     | ICD-10-CM |
| S92.415  | Nondisplaced fracture of proximal phalanx of left great toe   | Diagnosis     | ICD-10-CM |
| S92.415A | Nondisplaced fracture of proximal phalanx of left great toe, initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S92.415B | Nondisplaced fracture of proximal phalanx of left great toe, initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S92.415D | Nondisplaced fracture of proximal phalanx of left great toe, subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S92.415G | Nondisplaced fracture of proximal phalanx of left great toe, subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S92.415K | Nondisplaced fracture of proximal phalanx of left great toe, subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S92.415P | Nondisplaced fracture of proximal phalanx of left great toe, subsequent encounter for fracture with malunion            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.415S | Nondisplaced fracture of proximal phalanx of left great toe, sequela   | Diagnosis     | ICD-10-CM |
| S92.416  | Nondisplaced fracture of proximal phalanx of unspecified great toe   | Diagnosis     | ICD-10-CM |
| S92.416A | Nondisplaced fracture of proximal phalanx of unspecified great toe, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.416B | Nondisplaced fracture of proximal phalanx of unspecified great toe, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.416D | Nondisplaced fracture of proximal phalanx of unspecified great toe, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.416G | Nondisplaced fracture of proximal phalanx of unspecified great toe, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.416K | Nondisplaced fracture of proximal phalanx of unspecified great toe, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.416P | Nondisplaced fracture of proximal phalanx of unspecified great toe, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.416S | Nondisplaced fracture of proximal phalanx of unspecified great toe, sequela  | Diagnosis     | ICD-10-CM |
| S92.42   | Fracture of distal phalanx of great toe  | Diagnosis     | ICD-10-CM |
| S92.421  | Displaced fracture of distal phalanx of right great toe  | Diagnosis     | ICD-10-CM |
| S92.421A | Displaced fracture of distal phalanx of right great toe, initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S92.421B | Displaced fracture of distal phalanx of right great toe, initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S92.421D | Displaced fracture of distal phalanx of right great toe, subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S92.421G | Displaced fracture of distal phalanx of right great toe, subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S92.421K | Displaced fracture of distal phalanx of right great toe, subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |
| S92.421P | Displaced fracture of distal phalanx of right great toe, subsequent encounter for fracture with malunion                   | Diagnosis     | ICD-10-CM |
| S92.421S | Displaced fracture of distal phalanx of right great toe, sequela   | Diagnosis     | ICD-10-CM |
| S92.422  | Displaced fracture of distal phalanx of left great toe   | Diagnosis     | ICD-10-CM |
| S92.422A | Displaced fracture of distal phalanx of left great toe, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |
| S92.422B | Displaced fracture of distal phalanx of left great toe, initial encounter for open fracture                                | Diagnosis     | ICD-10-CM |
| S92.422D | Displaced fracture of distal phalanx of left great toe, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| S92.422G | Displaced fracture of distal phalanx of left great toe, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| S92.422K | Displaced fracture of distal phalanx of left great toe, subsequent encounter for fracture with nonunion                    | Diagnosis     | ICD-10-CM |
| S92.422P | Displaced fracture of distal phalanx of left great toe, subsequent encounter for fracture with malunion                    | Diagnosis     | ICD-10-CM |
| S92.422S | Displaced fracture of distal phalanx of left great toe, sequela  | Diagnosis     | ICD-10-CM |
| S92.423  | Displaced fracture of distal phalanx of unspecified great toe  | Diagnosis     | ICD-10-CM |
| S92.423A | Displaced fracture of distal phalanx of unspecified great toe, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S92.423B | Displaced fracture of distal phalanx of unspecified great toe, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S92.423D | Displaced fracture of distal phalanx of unspecified great toe, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S92.423G | Displaced fracture of distal phalanx of unspecified great toe, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.423K | Displaced fracture of distal phalanx of unspecified great toe, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S92.423P | Displaced fracture of distal phalanx of unspecified great toe, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S92.423S | Displaced fracture of distal phalanx of unspecified great toe, sequela   | Diagnosis     | ICD-10-CM |
| S92.424  | Nondisplaced fracture of distal phalanx of right great toe   | Diagnosis     | ICD-10-CM |
| S92.424A | Nondisplaced fracture of distal phalanx of right great toe, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S92.424B | Nondisplaced fracture of distal phalanx of right great toe, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S92.424D | Nondisplaced fracture of distal phalanx of right great toe, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S92.424G | Nondisplaced fracture of distal phalanx of right great toe, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.424K | Nondisplaced fracture of distal phalanx of right great toe, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.424P | Nondisplaced fracture of distal phalanx of right great toe, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.424S | Nondisplaced fracture of distal phalanx of right great toe, sequela  | Diagnosis     | ICD-10-CM |
| S92.425  | Nondisplaced fracture of distal phalanx of left great toe  | Diagnosis     | ICD-10-CM |
| S92.425A | Nondisplaced fracture of distal phalanx of left great toe, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.425B | Nondisplaced fracture of distal phalanx of left great toe, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.425D | Nondisplaced fracture of distal phalanx of left great toe, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.425G | Nondisplaced fracture of distal phalanx of left great toe, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.425K | Nondisplaced fracture of distal phalanx of left great toe, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.425P | Nondisplaced fracture of distal phalanx of left great toe, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.425S | Nondisplaced fracture of distal phalanx of left great toe, sequela   | Diagnosis     | ICD-10-CM |
| S92.426  | Nondisplaced fracture of distal phalanx of unspecified great toe   | Diagnosis     | ICD-10-CM |
| S92.426A | Nondisplaced fracture of distal phalanx of unspecified great toe, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.426B | Nondisplaced fracture of distal phalanx of unspecified great toe, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.426D | Nondisplaced fracture of distal phalanx of unspecified great toe, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.426G | Nondisplaced fracture of distal phalanx of unspecified great toe, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.426K | Nondisplaced fracture of distal phalanx of unspecified great toe, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.426P | Nondisplaced fracture of distal phalanx of unspecified great toe, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.426S | Nondisplaced fracture of distal phalanx of unspecified great toe, sequela  | Diagnosis     | ICD-10-CM |
| S92.49   | Other fracture of great toe  | Diagnosis     | ICD-10-CM |
| S92.491  | Other fracture of right great toe  | Diagnosis     | ICD-10-CM |
| S92.491A | Other fracture of right great toe, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S92.491B | Other fracture of right great toe, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S92.491D | Other fracture of right great toe, subsequent encounter for fracture with routine healing                                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S92.491G | Other fracture of right great toe, subsequent encounter for fracture with delayed healing                     | Diagnosis     | ICD-10-CM |
| S92.491K | Other fracture of right great toe, subsequent encounter for fracture with nonunion                            | Diagnosis     | ICD-10-CM |
| S92.491P | Other fracture of right great toe, subsequent encounter for fracture with malunion                            | Diagnosis     | ICD-10-CM |
| S92.491S | Other fracture of right great toe, sequela  | Diagnosis     | ICD-10-CM |
| S92.492  | Other fracture of left great toe  | Diagnosis     | ICD-10-CM |
| S92.492A | Other fracture of left great toe, initial encounter for closed fracture                                       | Diagnosis     | ICD-10-CM |
| S92.492B | Other fracture of left great toe, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S92.492D | Other fracture of left great toe, subsequent encounter for fracture with routine healing                      | Diagnosis     | ICD-10-CM |
| S92.492G | Other fracture of left great toe, subsequent encounter for fracture with delayed healing                      | Diagnosis     | ICD-10-CM |
| S92.492K | Other fracture of left great toe, subsequent encounter for fracture with nonunion                             | Diagnosis     | ICD-10-CM |
| S92.492P | Other fracture of left great toe, subsequent encounter for fracture with malunion                             | Diagnosis     | ICD-10-CM |
| S92.492S | Other fracture of left great toe, sequela   | Diagnosis     | ICD-10-CM |
| S92.499  | Other fracture of unspecified great toe   | Diagnosis     | ICD-10-CM |
| S92.499A | Other fracture of unspecified great toe, initial encounter for closed fracture                                | Diagnosis     | ICD-10-CM |
| S92.499B | Other fracture of unspecified great toe, initial encounter for open fracture                                  | Diagnosis     | ICD-10-CM |
| S92.499D | Other fracture of unspecified great toe, subsequent encounter for fracture with routine healing               | Diagnosis     | ICD-10-CM |
| S92.499G | Other fracture of unspecified great toe, subsequent encounter for fracture with delayed healing               | Diagnosis     | ICD-10-CM |
| S92.499K | Other fracture of unspecified great toe, subsequent encounter for fracture with nonunion                      | Diagnosis     | ICD-10-CM |
| S92.499P | Other fracture of unspecified great toe, subsequent encounter for fracture with malunion                      | Diagnosis     | ICD-10-CM |
| S92.499S | Other fracture of unspecified great toe, sequela  | Diagnosis     | ICD-10-CM |
| S92.5    | Fracture of lesser toe(s)   | Diagnosis     | ICD-10-CM |
| S92.50   | Unspecified fracture of lesser toe(s)   | Diagnosis     | ICD-10-CM |
| S92.501  | Displaced unspecified fracture of right lesser toe(s)   | Diagnosis     | ICD-10-CM |
| S92.501A | Displaced unspecified fracture of right lesser toe(s), initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.501B | Displaced unspecified fracture of right lesser toe(s), initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.501D | Displaced unspecified fracture of right lesser toe(s), subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.501G | Displaced unspecified fracture of right lesser toe(s), subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.501K | Displaced unspecified fracture of right lesser toe(s), subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.501P | Displaced unspecified fracture of right lesser toe(s), subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.501S | Displaced unspecified fracture of right lesser toe(s), sequela  | Diagnosis     | ICD-10-CM |
| S92.502  | Displaced unspecified fracture of left lesser toe(s)  | Diagnosis     | ICD-10-CM |
| S92.502A | Displaced unspecified fracture of left lesser toe(s), initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S92.502B | Displaced unspecified fracture of left lesser toe(s), initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S92.502D | Displaced unspecified fracture of left lesser toe(s), subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S92.502G | Displaced unspecified fracture of left lesser toe(s), subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S92.502K | Displaced unspecified fracture of left lesser toe(s), subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S92.502P | Displaced unspecified fracture of left lesser toe(s), subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S92.502S | Displaced unspecified fracture of left lesser toe(s), sequela   | Diagnosis     | ICD-10-CM |
| S92.503  | Displaced unspecified fracture of unspecified lesser toe(s)   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.503A | Displaced unspecified fracture of unspecified lesser toe(s), initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S92.503B | Displaced unspecified fracture of unspecified lesser toe(s), initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S92.503D | Displaced unspecified fracture of unspecified lesser toe(s), subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S92.503G | Displaced unspecified fracture of unspecified lesser toe(s), subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S92.503K | Displaced unspecified fracture of unspecified lesser toe(s), subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S92.503P | Displaced unspecified fracture of unspecified lesser toe(s), subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S92.503S | Displaced unspecified fracture of unspecified lesser toe(s), sequela   | Diagnosis     | ICD-10-CM |
| S92.504  | Nondisplaced unspecified fracture of right lesser toe(s)   | Diagnosis     | ICD-10-CM |
| S92.504A | Nondisplaced unspecified fracture of right lesser toe(s), initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S92.504B | Nondisplaced unspecified fracture of right lesser toe(s), initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S92.504D | Nondisplaced unspecified fracture of right lesser toe(s), subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S92.504G | Nondisplaced unspecified fracture of right lesser toe(s), subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.504K | Nondisplaced unspecified fracture of right lesser toe(s), subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.504P | Nondisplaced unspecified fracture of right lesser toe(s), subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.504S | Nondisplaced unspecified fracture of right lesser toe(s), sequela  | Diagnosis     | ICD-10-CM |
| S92.505  | Nondisplaced unspecified fracture of left lesser toe(s)  | Diagnosis     | ICD-10-CM |
| S92.505A | Nondisplaced unspecified fracture of left lesser toe(s), initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.505B | Nondisplaced unspecified fracture of left lesser toe(s), initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.505D | Nondisplaced unspecified fracture of left lesser toe(s), subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.505G | Nondisplaced unspecified fracture of left lesser toe(s), subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.505K | Nondisplaced unspecified fracture of left lesser toe(s), subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.505P | Nondisplaced unspecified fracture of left lesser toe(s), subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.505S | Nondisplaced unspecified fracture of left lesser toe(s), sequela   | Diagnosis     | ICD-10-CM |
| S92.506  | Nondisplaced unspecified fracture of unspecified lesser toe(s)   | Diagnosis     | ICD-10-CM |
| S92.506A | Nondisplaced unspecified fracture of unspecified lesser toe(s), initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.506B | Nondisplaced unspecified fracture of unspecified lesser toe(s), initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.506D | Nondisplaced unspecified fracture of unspecified lesser toe(s), subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.506G | Nondisplaced unspecified fracture of unspecified lesser toe(s), subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.506K | Nondisplaced unspecified fracture of unspecified lesser toe(s), subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.506P | Nondisplaced unspecified fracture of unspecified lesser toe(s), subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S92.506S | Nondisplaced unspecified fracture of unspecified lesser toe(s), sequela   | Diagnosis     | ICD-10-CM |
| S92.51   | Fracture of proximal phalanx of lesser toe(s)   | Diagnosis     | ICD-10-CM |
| S92.511  | Displaced fracture of proximal phalanx of right lesser toe(s)   | Diagnosis     | ICD-10-CM |
| S92.511A | Displaced fracture of proximal phalanx of right lesser toe(s), initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S92.511B | Displaced fracture of proximal phalanx of right lesser toe(s), initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S92.511D | Displaced fracture of proximal phalanx of right lesser toe(s), subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S92.511G | Displaced fracture of proximal phalanx of right lesser toe(s), subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.511K | Displaced fracture of proximal phalanx of right lesser toe(s), subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.511P | Displaced fracture of proximal phalanx of right lesser toe(s), subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.511S | Displaced fracture of proximal phalanx of right lesser toe(s), sequela  | Diagnosis     | ICD-10-CM |
| S92.512  | Displaced fracture of proximal phalanx of left lesser toe(s)  | Diagnosis     | ICD-10-CM |
| S92.512A | Displaced fracture of proximal phalanx of left lesser toe(s), initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.512B | Displaced fracture of proximal phalanx of left lesser toe(s), initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.512D | Displaced fracture of proximal phalanx of left lesser toe(s), subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.512G | Displaced fracture of proximal phalanx of left lesser toe(s), subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.512K | Displaced fracture of proximal phalanx of left lesser toe(s), subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.512P | Displaced fracture of proximal phalanx of left lesser toe(s), subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.512S | Displaced fracture of proximal phalanx of left lesser toe(s), sequela   | Diagnosis     | ICD-10-CM |
| S92.513  | Displaced fracture of proximal phalanx of unspecified lesser toe(s)   | Diagnosis     | ICD-10-CM |
| S92.513A | Displaced fracture of proximal phalanx of unspecified lesser toe(s), initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.513B | Displaced fracture of proximal phalanx of unspecified lesser toe(s), initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.513D | Displaced fracture of proximal phalanx of unspecified lesser toe(s), subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.513G | Displaced fracture of proximal phalanx of unspecified lesser toe(s), subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.513K | Displaced fracture of proximal phalanx of unspecified lesser toe(s), subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.513P | Displaced fracture of proximal phalanx of unspecified lesser toe(s), subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.513S | Displaced fracture of proximal phalanx of unspecified lesser toe(s), sequela  | Diagnosis     | ICD-10-CM |
| S92.514  | Nondisplaced fracture of proximal phalanx of right lesser toe(s)  | Diagnosis     | ICD-10-CM |
| S92.514A | Nondisplaced fracture of proximal phalanx of right lesser toe(s), initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S92.514B | Nondisplaced fracture of proximal phalanx of right lesser toe(s), initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.514D | Nondisplaced fracture of proximal phalanx of right lesser toe(s), subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S92.514G | Nondisplaced fracture of proximal phalanx of right lesser toe(s), subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.514K | Nondisplaced fracture of proximal phalanx of right lesser toe(s), subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.514P | Nondisplaced fracture of proximal phalanx of right lesser toe(s), subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.514S | Nondisplaced fracture of proximal phalanx of right lesser toe(s), sequela  | Diagnosis     | ICD-10-CM |
| S92.515  | Nondisplaced fracture of proximal phalanx of left lesser toe(s)  | Diagnosis     | ICD-10-CM |
| S92.515A | Nondisplaced fracture of proximal phalanx of left lesser toe(s), initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.515B | Nondisplaced fracture of proximal phalanx of left lesser toe(s), initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.515D | Nondisplaced fracture of proximal phalanx of left lesser toe(s), subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.515G | Nondisplaced fracture of proximal phalanx of left lesser toe(s), subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.515K | Nondisplaced fracture of proximal phalanx of left lesser toe(s), subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.515P | Nondisplaced fracture of proximal phalanx of left lesser toe(s), subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.515S | Nondisplaced fracture of proximal phalanx of left lesser toe(s), sequela   | Diagnosis     | ICD-10-CM |
| S92.516  | Nondisplaced fracture of proximal phalanx of unspecified lesser toe(s)   | Diagnosis     | ICD-10-CM |
| S92.516A | Nondisplaced fracture of proximal phalanx of unspecified lesser toe(s), initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.516B | Nondisplaced fracture of proximal phalanx of unspecified lesser toe(s), initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.516D | Nondisplaced fracture of proximal phalanx of unspecified lesser toe(s), subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.516G | Nondisplaced fracture of proximal phalanx of unspecified lesser toe(s), subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.516K | Nondisplaced fracture of proximal phalanx of unspecified lesser toe(s), subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.516P | Nondisplaced fracture of proximal phalanx of unspecified lesser toe(s), subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.516S | Nondisplaced fracture of proximal phalanx of unspecified lesser toe(s), sequela  | Diagnosis     | ICD-10-CM |
| S92.52   | Fracture of middle phalanx of lesser toe(s)  | Diagnosis     | ICD-10-CM |
| S92.521  | Displaced fracture of middle phalanx of right lesser toe(s)  | Diagnosis     | ICD-10-CM |
| S92.521A | Displaced fracture of middle phalanx of right lesser toe(s), initial encounter for closed fracture                             | Diagnosis     | ICD-10-CM |
| S92.521B | Displaced fracture of middle phalanx of right lesser toe(s), initial encounter for open fracture                               | Diagnosis     | ICD-10-CM |
| S92.521D | Displaced fracture of middle phalanx of right lesser toe(s), subsequent encounter for fracture with routine healing            | Diagnosis     | ICD-10-CM |
| S92.521G | Displaced fracture of middle phalanx of right lesser toe(s), subsequent encounter for fracture with delayed healing            | Diagnosis     | ICD-10-CM |
| S92.521K | Displaced fracture of middle phalanx of right lesser toe(s), subsequent encounter for fracture with nonunion                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S92.521P | Displaced fracture of middle phalanx of right lesser toe(s), subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.521S | Displaced fracture of middle phalanx of right lesser toe(s), sequela  | Diagnosis     | ICD-10-CM |
| S92.522  | Displaced fracture of middle phalanx of left lesser toe(s)  | Diagnosis     | ICD-10-CM |
| S92.522A | Displaced fracture of middle phalanx of left lesser toe(s), initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.522B | Displaced fracture of middle phalanx of left lesser toe(s), initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.522D | Displaced fracture of middle phalanx of left lesser toe(s), subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.522G | Displaced fracture of middle phalanx of left lesser toe(s), subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.522K | Displaced fracture of middle phalanx of left lesser toe(s), subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.522P | Displaced fracture of middle phalanx of left lesser toe(s), subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.522S | Displaced fracture of middle phalanx of left lesser toe(s), sequela   | Diagnosis     | ICD-10-CM |
| S92.523  | Displaced fracture of middle phalanx of unspecified lesser toe(s)   | Diagnosis     | ICD-10-CM |
| S92.523A | Displaced fracture of middle phalanx of unspecified lesser toe(s), initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.523B | Displaced fracture of middle phalanx of unspecified lesser toe(s), initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.523D | Displaced fracture of middle phalanx of unspecified lesser toe(s), subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.523G | Displaced fracture of middle phalanx of unspecified lesser toe(s), subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.523K | Displaced fracture of middle phalanx of unspecified lesser toe(s), subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.523P | Displaced fracture of middle phalanx of unspecified lesser toe(s), subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.523S | Displaced fracture of middle phalanx of unspecified lesser toe(s), sequela  | Diagnosis     | ICD-10-CM |
| S92.524  | Nondisplaced fracture of middle phalanx of right lesser toe(s)  | Diagnosis     | ICD-10-CM |
| S92.524A | Nondisplaced fracture of middle phalanx of right lesser toe(s), initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S92.524B | Nondisplaced fracture of middle phalanx of right lesser toe(s), initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S92.524D | Nondisplaced fracture of middle phalanx of right lesser toe(s), subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S92.524G | Nondisplaced fracture of middle phalanx of right lesser toe(s), subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S92.524K | Nondisplaced fracture of middle phalanx of right lesser toe(s), subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S92.524P | Nondisplaced fracture of middle phalanx of right lesser toe(s), subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S92.524S | Nondisplaced fracture of middle phalanx of right lesser toe(s), sequela   | Diagnosis     | ICD-10-CM |
| S92.525  | Nondisplaced fracture of middle phalanx of left lesser toe(s)   | Diagnosis     | ICD-10-CM |
| S92.525A | Nondisplaced fracture of middle phalanx of left lesser toe(s), initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S92.525B | Nondisplaced fracture of middle phalanx of left lesser toe(s), initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.525D | Nondisplaced fracture of middle phalanx of left lesser toe(s), subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.525G | Nondisplaced fracture of middle phalanx of left lesser toe(s), subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.525K | Nondisplaced fracture of middle phalanx of left lesser toe(s), subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.525P | Nondisplaced fracture of middle phalanx of left lesser toe(s), subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.525S | Nondisplaced fracture of middle phalanx of left lesser toe(s), sequela   | Diagnosis     | ICD-10-CM |
| S92.526  | Nondisplaced fracture of middle phalanx of unspecified lesser toe(s)   | Diagnosis     | ICD-10-CM |
| S92.526A | Nondisplaced fracture of middle phalanx of unspecified lesser toe(s), initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.526B | Nondisplaced fracture of middle phalanx of unspecified lesser toe(s), initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.526D | Nondisplaced fracture of middle phalanx of unspecified lesser toe(s), subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.526G | Nondisplaced fracture of middle phalanx of unspecified lesser toe(s), subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.526K | Nondisplaced fracture of middle phalanx of unspecified lesser toe(s), subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.526P | Nondisplaced fracture of middle phalanx of unspecified lesser toe(s), subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.526S | Nondisplaced fracture of middle phalanx of unspecified lesser toe(s), sequela  | Diagnosis     | ICD-10-CM |
| S92.53   | Fracture of distal phalanx of lesser toe(s)  | Diagnosis     | ICD-10-CM |
| S92.531  | Displaced fracture of distal phalanx of right lesser toe(s)  | Diagnosis     | ICD-10-CM |
| S92.531A | Displaced fracture of distal phalanx of right lesser toe(s), initial encounter for closed fracture                           | Diagnosis     | ICD-10-CM |
| S92.531B | Displaced fracture of distal phalanx of right lesser toe(s), initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |
| S92.531D | Displaced fracture of distal phalanx of right lesser toe(s), subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S92.531G | Displaced fracture of distal phalanx of right lesser toe(s), subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S92.531K | Displaced fracture of distal phalanx of right lesser toe(s), subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S92.531P | Displaced fracture of distal phalanx of right lesser toe(s), subsequent encounter for fracture with malunion                 | Diagnosis     | ICD-10-CM |
| S92.531S | Displaced fracture of distal phalanx of right lesser toe(s), sequela   | Diagnosis     | ICD-10-CM |
| S92.532  | Displaced fracture of distal phalanx of left lesser toe(s)   | Diagnosis     | ICD-10-CM |
| S92.532A | Displaced fracture of distal phalanx of left lesser toe(s), initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S92.532B | Displaced fracture of distal phalanx of left lesser toe(s), initial encounter for open fracture                              | Diagnosis     | ICD-10-CM |
| S92.532D | Displaced fracture of distal phalanx of left lesser toe(s), subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S92.532G | Displaced fracture of distal phalanx of left lesser toe(s), subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S92.532K | Displaced fracture of distal phalanx of left lesser toe(s), subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S92.532P | Displaced fracture of distal phalanx of left lesser toe(s), subsequent encounter for fracture with malunion                  | Diagnosis     | ICD-10-CM |
| S92.532S | Displaced fracture of distal phalanx of left lesser toe(s), sequela  | Diagnosis     | ICD-10-CM |
| S92.533  | Displaced fracture of distal phalanx of unspecified lesser toe(s)  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.533A | Displaced fracture of distal phalanx of unspecified lesser toe(s), initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S92.533B | Displaced fracture of distal phalanx of unspecified lesser toe(s), initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S92.533D | Displaced fracture of distal phalanx of unspecified lesser toe(s), subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S92.533G | Displaced fracture of distal phalanx of unspecified lesser toe(s), subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S92.533K | Displaced fracture of distal phalanx of unspecified lesser toe(s), subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S92.533P | Displaced fracture of distal phalanx of unspecified lesser toe(s), subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S92.533S | Displaced fracture of distal phalanx of unspecified lesser toe(s), sequela   | Diagnosis     | ICD-10-CM |
| S92.534  | Nondisplaced fracture of distal phalanx of right lesser toe(s)   | Diagnosis     | ICD-10-CM |
| S92.534A | Nondisplaced fracture of distal phalanx of right lesser toe(s), initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S92.534B | Nondisplaced fracture of distal phalanx of right lesser toe(s), initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S92.534D | Nondisplaced fracture of distal phalanx of right lesser toe(s), subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S92.534G | Nondisplaced fracture of distal phalanx of right lesser toe(s), subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.534K | Nondisplaced fracture of distal phalanx of right lesser toe(s), subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.534P | Nondisplaced fracture of distal phalanx of right lesser toe(s), subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.534S | Nondisplaced fracture of distal phalanx of right lesser toe(s), sequela  | Diagnosis     | ICD-10-CM |
| S92.535  | Nondisplaced fracture of distal phalanx of left lesser toe(s)  | Diagnosis     | ICD-10-CM |
| S92.535A | Nondisplaced fracture of distal phalanx of left lesser toe(s), initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.535B | Nondisplaced fracture of distal phalanx of left lesser toe(s), initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.535D | Nondisplaced fracture of distal phalanx of left lesser toe(s), subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.535G | Nondisplaced fracture of distal phalanx of left lesser toe(s), subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.535K | Nondisplaced fracture of distal phalanx of left lesser toe(s), subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.535P | Nondisplaced fracture of distal phalanx of left lesser toe(s), subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.535S | Nondisplaced fracture of distal phalanx of left lesser toe(s), sequela   | Diagnosis     | ICD-10-CM |
| S92.536  | Nondisplaced fracture of distal phalanx of unspecified lesser toe(s)   | Diagnosis     | ICD-10-CM |
| S92.536A | Nondisplaced fracture of distal phalanx of unspecified lesser toe(s), initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.536B | Nondisplaced fracture of distal phalanx of unspecified lesser toe(s), initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.536D | Nondisplaced fracture of distal phalanx of unspecified lesser toe(s), subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.536G | Nondisplaced fracture of distal phalanx of unspecified lesser toe(s), subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S92.536K | Nondisplaced fracture of distal phalanx of unspecified lesser toe(s), subsequent encounter for fracture with nonunion | Diagnosis     | ICD-10-CM |
| S92.536P | Nondisplaced fracture of distal phalanx of unspecified lesser toe(s), subsequent encounter for fracture with malunion | Diagnosis     | ICD-10-CM |
| S92.536S | Nondisplaced fracture of distal phalanx of unspecified lesser toe(s), sequela   | Diagnosis     | ICD-10-CM |
| S92.59   | Other fracture of lesser toe(s)   | Diagnosis     | ICD-10-CM |
| S92.591  | Other fracture of right lesser toe(s)   | Diagnosis     | ICD-10-CM |
| S92.591A | Other fracture of right lesser toe(s), initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S92.591B | Other fracture of right lesser toe(s), initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S92.591D | Other fracture of right lesser toe(s), subsequent encounter for fracture with routine healing                         | Diagnosis     | ICD-10-CM |
| S92.591G | Other fracture of right lesser toe(s), subsequent encounter for fracture with delayed healing                         | Diagnosis     | ICD-10-CM |
| S92.591K | Other fracture of right lesser toe(s), subsequent encounter for fracture with nonunion                                | Diagnosis     | ICD-10-CM |
| S92.591P | Other fracture of right lesser toe(s), subsequent encounter for fracture with malunion                                | Diagnosis     | ICD-10-CM |
| S92.591S | Other fracture of right lesser toe(s), sequela  | Diagnosis     | ICD-10-CM |
| S92.592  | Other fracture of left lesser toe(s)  | Diagnosis     | ICD-10-CM |
| S92.592A | Other fracture of left lesser toe(s), initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S92.592B | Other fracture of left lesser toe(s), initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S92.592D | Other fracture of left lesser toe(s), subsequent encounter for fracture with routine healing                          | Diagnosis     | ICD-10-CM |
| S92.592G | Other fracture of left lesser toe(s), subsequent encounter for fracture with delayed healing                          | Diagnosis     | ICD-10-CM |
| S92.592K | Other fracture of left lesser toe(s), subsequent encounter for fracture with nonunion                                 | Diagnosis     | ICD-10-CM |
| S92.592P | Other fracture of left lesser toe(s), subsequent encounter for fracture with malunion                                 | Diagnosis     | ICD-10-CM |
| S92.592S | Other fracture of left lesser toe(s), sequela   | Diagnosis     | ICD-10-CM |
| S92.599  | Other fracture of unspecified lesser toe(s)   | Diagnosis     | ICD-10-CM |
| S92.599A | Other fracture of unspecified lesser toe(s), initial encounter for closed fracture                                    | Diagnosis     | ICD-10-CM |
| S92.599B | Other fracture of unspecified lesser toe(s), initial encounter for open fracture                                      | Diagnosis     | ICD-10-CM |
| S92.599D | Other fracture of unspecified lesser toe(s), subsequent encounter for fracture with routine healing                   | Diagnosis     | ICD-10-CM |
| S92.599G | Other fracture of unspecified lesser toe(s), subsequent encounter for fracture with delayed healing                   | Diagnosis     | ICD-10-CM |
| S92.599K | Other fracture of unspecified lesser toe(s), subsequent encounter for fracture with nonunion                          | Diagnosis     | ICD-10-CM |
| S92.599P | Other fracture of unspecified lesser toe(s), subsequent encounter for fracture with malunion                          | Diagnosis     | ICD-10-CM |
| S92.599S | Other fracture of unspecified lesser toe(s), sequela  | Diagnosis     | ICD-10-CM |
| S92.8    | Other fracture of foot, except ankle  | Diagnosis     | ICD-10-CM |
| S92.81   | Other fracture of foot  | Diagnosis     | ICD-10-CM |
| S92.811  | Other fracture of right foot  | Diagnosis     | ICD-10-CM |
| S92.811A | Other fracture of right foot, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S92.811B | Other fracture of right foot, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S92.811D | Other fracture of right foot, subsequent encounter for fracture with routine healing                                  | Diagnosis     | ICD-10-CM |
| S92.811G | Other fracture of right foot, subsequent encounter for fracture with delayed healing                                  | Diagnosis     | ICD-10-CM |
| S92.811K | Other fracture of right foot, subsequent encounter for fracture with nonunion   | Diagnosis     | ICD-10-CM |
| S92.811P | Other fracture of right foot, subsequent encounter for fracture with malunion   | Diagnosis     | ICD-10-CM |
| S92.811S | Other fracture of right foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.812  | Other fracture of left foot   | Diagnosis     | ICD-10-CM |
| S92.812A | Other fracture of left foot, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S92.812B | Other fracture of left foot, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S92.812D | Other fracture of left foot, subsequent encounter for fracture with routine healing                                   | Diagnosis     | ICD-10-CM |
| S92.812G | Other fracture of left foot, subsequent encounter for fracture with delayed healing                                   | Diagnosis     | ICD-10-CM |
| S92.812K | Other fracture of left foot, subsequent encounter for fracture with nonunion  | Diagnosis     | ICD-10-CM |
| S92.812P | Other fracture of left foot, subsequent encounter for fracture with malunion  | Diagnosis     | ICD-10-CM |
| S92.812S | Other fracture of left foot, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.819  | Other fracture of unspecified foot   | Diagnosis     | ICD-10-CM |
| S92.819A | Other fracture of unspecified foot, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S92.819B | Other fracture of unspecified foot, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S92.819D | Other fracture of unspecified foot, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S92.819G | Other fracture of unspecified foot, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.819K | Other fracture of unspecified foot, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.819P | Other fracture of unspecified foot, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.819S | Other fracture of unspecified foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.9    | Unspecified fracture of foot and toe   | Diagnosis     | ICD-10-CM |
| S92.90   | Unspecified fracture of foot   | Diagnosis     | ICD-10-CM |
| S92.901  | Unspecified fracture of right foot   | Diagnosis     | ICD-10-CM |
| S92.901A | Unspecified fracture of right foot, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S92.901B | Unspecified fracture of right foot, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S92.901D | Unspecified fracture of right foot, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S92.901G | Unspecified fracture of right foot, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S92.901K | Unspecified fracture of right foot, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S92.901P | Unspecified fracture of right foot, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S92.901S | Unspecified fracture of right foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.902  | Unspecified fracture of left foot  | Diagnosis     | ICD-10-CM |
| S92.902A | Unspecified fracture of left foot, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S92.902B | Unspecified fracture of left foot, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S92.902D | Unspecified fracture of left foot, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S92.902G | Unspecified fracture of left foot, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S92.902K | Unspecified fracture of left foot, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.902P | Unspecified fracture of left foot, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.902S | Unspecified fracture of left foot, sequela   | Diagnosis     | ICD-10-CM |
| S92.909  | Unspecified fracture of unspecified foot   | Diagnosis     | ICD-10-CM |
| S92.909A | Unspecified fracture of unspecified foot, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.909B | Unspecified fracture of unspecified foot, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.909D | Unspecified fracture of unspecified foot, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.909G | Unspecified fracture of unspecified foot, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.909K | Unspecified fracture of unspecified foot, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.909P | Unspecified fracture of unspecified foot, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.909S | Unspecified fracture of unspecified foot, sequela  | Diagnosis     | ICD-10-CM |
| S92.91   | Unspecified fracture of toe  | Diagnosis     | ICD-10-CM |
| S92.911  | Unspecified fracture of right toe(s)   | Diagnosis     | ICD-10-CM |
| S92.911A | Unspecified fracture of right toe(s), initial encounter for closed fracture                      | Diagnosis     | ICD-10-CM |
| S92.911B | Unspecified fracture of right toe(s), initial encounter for open fracture                        | Diagnosis     | ICD-10-CM |
| S92.911D | Unspecified fracture of right toe(s), subsequent encounter for fracture with routine healing     | Diagnosis     | ICD-10-CM |
| S92.911G | Unspecified fracture of right toe(s), subsequent encounter for fracture with delayed healing     | Diagnosis     | ICD-10-CM |
| S92.911K | Unspecified fracture of right toe(s), subsequent encounter for fracture with nonunion            | Diagnosis     | ICD-10-CM |
| S92.911P | Unspecified fracture of right toe(s), subsequent encounter for fracture with malunion            | Diagnosis     | ICD-10-CM |
| S92.911S | Unspecified fracture of right toe(s), sequela  | Diagnosis     | ICD-10-CM |
| S92.912  | Unspecified fracture of left toe(s)  | Diagnosis     | ICD-10-CM |
| S92.912A | Unspecified fracture of left toe(s), initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S92.912B | Unspecified fracture of left toe(s), initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S92.912D | Unspecified fracture of left toe(s), subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S92.912G | Unspecified fracture of left toe(s), subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S92.912K | Unspecified fracture of left toe(s), subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S92.912P | Unspecified fracture of left toe(s), subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S92.912S | Unspecified fracture of left toe(s), sequela   | Diagnosis     | ICD-10-CM |
| S92.919  | Unspecified fracture of unspecified toe(s)   | Diagnosis     | ICD-10-CM |
| S92.919A | Unspecified fracture of unspecified toe(s), initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S92.919B | Unspecified fracture of unspecified toe(s), initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S92.919D | Unspecified fracture of unspecified toe(s), subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S92.919G | Unspecified fracture of unspecified toe(s), subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S92.919K | Unspecified fracture of unspecified toe(s), subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S92.919P | Unspecified fracture of unspecified toe(s), subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S92.919S | Unspecified fracture of unspecified toe(s), sequela  | Diagnosis     | ICD-10-CM |
| S93      | Dislocation and sprain of joints and ligaments at ankle, foot and toe level                        | Diagnosis     | ICD-10-CM |
| S93.0    | Subluxation and dislocation of ankle joint   | Diagnosis     | ICD-10-CM |
| S93.01   | Subluxation of right ankle joint   | Diagnosis     | ICD-10-CM |
| S93.01XA | Subluxation of right ankle joint, initial encounter  | Diagnosis     | ICD-10-CM |
| S93.01XD | Subluxation of right ankle joint, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S93.01XS | Subluxation of right ankle joint, sequela  | Diagnosis     | ICD-10-CM |
| S93.02   | Subluxation of left ankle joint  | Diagnosis     | ICD-10-CM |
| S93.02XA | Subluxation of left ankle joint, initial encounter   | Diagnosis     | ICD-10-CM |
| S93.02XD | Subluxation of left ankle joint, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S93.02XS | Subluxation of left ankle joint, sequela   | Diagnosis     | ICD-10-CM |
| S93.03   | Subluxation of unspecified ankle joint   | Diagnosis     | ICD-10-CM |
| S93.03XA | Subluxation of unspecified ankle joint, initial encounter  | Diagnosis     | ICD-10-CM |
| S93.03XD | Subluxation of unspecified ankle joint, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S93.03XS | Subluxation of unspecified ankle joint, sequela  | Diagnosis     | ICD-10-CM |
| S93.04   | Dislocation of right ankle joint   | Diagnosis     | ICD-10-CM |
| S93.04XA | Dislocation of right ankle joint, initial encounter  | Diagnosis     | ICD-10-CM |
| S93.04XD | Dislocation of right ankle joint, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S93.04XS | Dislocation of right ankle joint, sequela  | Diagnosis     | ICD-10-CM |
| S93.05   | Dislocation of left ankle joint  | Diagnosis     | ICD-10-CM |
| S93.05XA | Dislocation of left ankle joint, initial encounter   | Diagnosis     | ICD-10-CM |
| S93.05XD | Dislocation of left ankle joint, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S93.05XS | Dislocation of left ankle joint, sequela   | Diagnosis     | ICD-10-CM |
| S93.06   | Dislocation of unspecified ankle joint   | Diagnosis     | ICD-10-CM |
| S93.06XA | Dislocation of unspecified ankle joint, initial encounter  | Diagnosis     | ICD-10-CM |
| S93.06XD | Dislocation of unspecified ankle joint, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S93.06XS | Dislocation of unspecified ankle joint, sequela  | Diagnosis     | ICD-10-CM |
| S93.1    | Subluxation and dislocation of toe   | Diagnosis     | ICD-10-CM |
| S93.10   | Unspecified subluxation and dislocation of toe   | Diagnosis     | ICD-10-CM |
| S93.101  | Unspecified subluxation of right toe(s)  | Diagnosis     | ICD-10-CM |
| S93.101A | Unspecified subluxation of right toe(s), initial encounter   | Diagnosis     | ICD-10-CM |
| S93.101D | Unspecified subluxation of right toe(s), subsequent encounter                                      | Diagnosis     | ICD-10-CM |
| S93.101S | Unspecified subluxation of right toe(s), sequela   | Diagnosis     | ICD-10-CM |
| S93.102  | Unspecified subluxation of left toe(s)   | Diagnosis     | ICD-10-CM |
| S93.102A | Unspecified subluxation of left toe(s), initial encounter  | Diagnosis     | ICD-10-CM |
| S93.102D | Unspecified subluxation of left toe(s), subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S93.102S | Unspecified subluxation of left toe(s), sequela  | Diagnosis     | ICD-10-CM |
| S93.103  | Unspecified subluxation of unspecified toe(s)  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S93.103A | Unspecified subluxation of unspecified toe(s), initial encounter                        | Diagnosis     | ICD-10-CM |
| S93.103D | Unspecified subluxation of unspecified toe(s), subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S93.103S | Unspecified subluxation of unspecified toe(s), sequela                                  | Diagnosis     | ICD-10-CM |
| S93.104  | Unspecified dislocation of right toe(s)   | Diagnosis     | ICD-10-CM |
| S93.104A | Unspecified dislocation of right toe(s), initial encounter                              | Diagnosis     | ICD-10-CM |
| S93.104D | Unspecified dislocation of right toe(s), subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S93.104S | Unspecified dislocation of right toe(s), sequela  | Diagnosis     | ICD-10-CM |
| S93.105  | Unspecified dislocation of left toe(s)  | Diagnosis     | ICD-10-CM |
| S93.105A | Unspecified dislocation of left toe(s), initial encounter                               | Diagnosis     | ICD-10-CM |
| S93.105D | Unspecified dislocation of left toe(s), subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S93.105S | Unspecified dislocation of left toe(s), sequela   | Diagnosis     | ICD-10-CM |
| S93.106  | Unspecified dislocation of unspecified toe(s)   | Diagnosis     | ICD-10-CM |
| S93.106A | Unspecified dislocation of unspecified toe(s), initial encounter                        | Diagnosis     | ICD-10-CM |
| S93.106D | Unspecified dislocation of unspecified toe(s), subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S93.106S | Unspecified dislocation of unspecified toe(s), sequela                                  | Diagnosis     | ICD-10-CM |
| S93.11   | Dislocation of interphalangeal joint  | Diagnosis     | ICD-10-CM |
| S93.111  | Dislocation of interphalangeal joint of right great toe                                 | Diagnosis     | ICD-10-CM |
| S93.111A | Dislocation of interphalangeal joint of right great toe, initial encounter              | Diagnosis     | ICD-10-CM |
| S93.111D | Dislocation of interphalangeal joint of right great toe, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S93.111S | Dislocation of interphalangeal joint of right great toe, sequela                        | Diagnosis     | ICD-10-CM |
| S93.112  | Dislocation of interphalangeal joint of left great toe                                  | Diagnosis     | ICD-10-CM |
| S93.112A | Dislocation of interphalangeal joint of left great toe, initial encounter               | Diagnosis     | ICD-10-CM |
| S93.112D | Dislocation of interphalangeal joint of left great toe, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S93.112S | Dislocation of interphalangeal joint of left great toe, sequela                         | Diagnosis     | ICD-10-CM |
| S93.113  | Dislocation of interphalangeal joint of unspecified great toe                           | Diagnosis     | ICD-10-CM |
| S93.113A | Dislocation of interphalangeal joint of unspecified great toe, initial encounter        | Diagnosis     | ICD-10-CM |
| S93.113D | Dislocation of interphalangeal joint of unspecified great toe, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S93.113S | Dislocation of interphalangeal joint of unspecified great toe, sequela                  | Diagnosis     | ICD-10-CM |
| S93.114  | Dislocation of interphalangeal joint of right lesser toe(s)                             | Diagnosis     | ICD-10-CM |
| S93.114A | Dislocation of interphalangeal joint of right lesser toe(s), initial encounter          | Diagnosis     | ICD-10-CM |
| S93.114D | Dislocation of interphalangeal joint of right lesser toe(s), subsequent encounter       | Diagnosis     | ICD-10-CM |
| S93.114S | Dislocation of interphalangeal joint of right lesser toe(s), sequela                    | Diagnosis     | ICD-10-CM |
| S93.115  | Dislocation of interphalangeal joint of left lesser toe(s)                              | Diagnosis     | ICD-10-CM |
| S93.115A | Dislocation of interphalangeal joint of left lesser toe(s), initial encounter           | Diagnosis     | ICD-10-CM |
| S93.115D | Dislocation of interphalangeal joint of left lesser toe(s), subsequent encounter        | Diagnosis     | ICD-10-CM |
| S93.115S | Dislocation of interphalangeal joint of left lesser toe(s), sequela                     | Diagnosis     | ICD-10-CM |
| S93.116  | Dislocation of interphalangeal joint of unspecified lesser toe(s)                       | Diagnosis     | ICD-10-CM |
| S93.116A | Dislocation of interphalangeal joint of unspecified lesser toe(s), initial encounter    | Diagnosis     | ICD-10-CM |
| S93.116D | Dislocation of interphalangeal joint of unspecified lesser toe(s), subsequent encounter | Diagnosis     | ICD-10-CM |
| S93.116S | Dislocation of interphalangeal joint of unspecified lesser toe(s), sequela              | Diagnosis     | ICD-10-CM |
| S93.119  | Dislocation of interphalangeal joint of unspecified toe(s)                              | Diagnosis     | ICD-10-CM |
| S93.119A | Dislocation of interphalangeal joint of unspecified toe(s), initial encounter           | Diagnosis     | ICD-10-CM |
| S93.119D | Dislocation of interphalangeal joint of unspecified toe(s), subsequent encounter        | Diagnosis     | ICD-10-CM |
| S93.119S | Dislocation of interphalangeal joint of unspecified toe(s), sequela                     | Diagnosis     | ICD-10-CM |
| S93.12   | Dislocation of metatarsophalangeal joint  | Diagnosis     | ICD-10-CM |
| S93.121  | Dislocation of metatarsophalangeal joint of right great toe                             | Diagnosis     | ICD-10-CM |
| S93.121A | Dislocation of metatarsophalangeal joint of right great toe, initial encounter          | Diagnosis     | ICD-10-CM |
| S93.121D | Dislocation of metatarsophalangeal joint of right great toe, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S93.121S | Dislocation of metatarsophalangeal joint of right great toe, sequela                    | Diagnosis     | ICD-10-CM |
| S93.122  | Dislocation of metatarsophalangeal joint of left great toe                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S93.122A | Dislocation of metatarsophalangeal joint of left great toe, initial encounter               | Diagnosis     | ICD-10-CM |
| S93.122D | Dislocation of metatarsophalangeal joint of left great toe, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S93.122S | Dislocation of metatarsophalangeal joint of left great toe, sequela                         | Diagnosis     | ICD-10-CM |
| S93.123  | Dislocation of metatarsophalangeal joint of unspecified great toe                           | Diagnosis     | ICD-10-CM |
| S93.123A | Dislocation of metatarsophalangeal joint of unspecified great toe, initial encounter        | Diagnosis     | ICD-10-CM |
| S93.123D | Dislocation of metatarsophalangeal joint of unspecified great toe, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S93.123S | Dislocation of metatarsophalangeal joint of unspecified great toe, sequela                  | Diagnosis     | ICD-10-CM |
| S93.124  | Dislocation of metatarsophalangeal joint of right lesser toe(s)                             | Diagnosis     | ICD-10-CM |
| S93.124A | Dislocation of metatarsophalangeal joint of right lesser toe(s), initial encounter          | Diagnosis     | ICD-10-CM |
| S93.124D | Dislocation of metatarsophalangeal joint of right lesser toe(s), subsequent encounter       | Diagnosis     | ICD-10-CM |
| S93.124S | Dislocation of metatarsophalangeal joint of right lesser toe(s), sequela                    | Diagnosis     | ICD-10-CM |
| S93.125  | Dislocation of metatarsophalangeal joint of left lesser toe(s)                              | Diagnosis     | ICD-10-CM |
| S93.125A | Dislocation of metatarsophalangeal joint of left lesser toe(s), initial encounter           | Diagnosis     | ICD-10-CM |
| S93.125D | Dislocation of metatarsophalangeal joint of left lesser toe(s), subsequent encounter        | Diagnosis     | ICD-10-CM |
| S93.125S | Dislocation of metatarsophalangeal joint of left lesser toe(s), sequela                     | Diagnosis     | ICD-10-CM |
| S93.126  | Dislocation of metatarsophalangeal joint of unspecified lesser toe(s)                       | Diagnosis     | ICD-10-CM |
| S93.126A | Dislocation of metatarsophalangeal joint of unspecified lesser toe(s), initial encounter    | Diagnosis     | ICD-10-CM |
| S93.126D | Dislocation of metatarsophalangeal joint of unspecified lesser toe(s), subsequent encounter | Diagnosis     | ICD-10-CM |
| S93.126S | Dislocation of metatarsophalangeal joint of unspecified lesser toe(s), sequela              | Diagnosis     | ICD-10-CM |
| S93.129  | Dislocation of metatarsophalangeal joint of unspecified toe(s)                              | Diagnosis     | ICD-10-CM |
| S93.129A | Dislocation of metatarsophalangeal joint of unspecified toe(s), initial encounter           | Diagnosis     | ICD-10-CM |
| S93.129D | Dislocation of metatarsophalangeal joint of unspecified toe(s), subsequent encounter        | Diagnosis     | ICD-10-CM |
| S93.129S | Dislocation of metatarsophalangeal joint of unspecified toe(s), sequela                     | Diagnosis     | ICD-10-CM |
| S93.13   | Subluxation of interphalangeal joint  | Diagnosis     | ICD-10-CM |
| S93.131  | Subluxation of interphalangeal joint of right great toe                                     | Diagnosis     | ICD-10-CM |
| S93.131A | Subluxation of interphalangeal joint of right great toe, initial encounter                  | Diagnosis     | ICD-10-CM |
| S93.131D | Subluxation of interphalangeal joint of right great toe, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S93.131S | Subluxation of interphalangeal joint of right great toe, sequela                            | Diagnosis     | ICD-10-CM |
| S93.132  | Subluxation of interphalangeal joint of left great toe                                      | Diagnosis     | ICD-10-CM |
| S93.132A | Subluxation of interphalangeal joint of left great toe, initial encounter                   | Diagnosis     | ICD-10-CM |
| S93.132D | Subluxation of interphalangeal joint of left great toe, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S93.132S | Subluxation of interphalangeal joint of left great toe, sequela                             | Diagnosis     | ICD-10-CM |
| S93.133  | Subluxation of interphalangeal joint of unspecified great toe                               | Diagnosis     | ICD-10-CM |
| S93.133A | Subluxation of interphalangeal joint of unspecified great toe, initial encounter            | Diagnosis     | ICD-10-CM |
| S93.133D | Subluxation of interphalangeal joint of unspecified great toe, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S93.133S | Subluxation of interphalangeal joint of unspecified great toe, sequela                      | Diagnosis     | ICD-10-CM |
| S93.134  | Subluxation of interphalangeal joint of right lesser toe(s)                                 | Diagnosis     | ICD-10-CM |
| S93.134A | Subluxation of interphalangeal joint of right lesser toe(s), initial encounter              | Diagnosis     | ICD-10-CM |
| S93.134D | Subluxation of interphalangeal joint of right lesser toe(s), subsequent encounter           | Diagnosis     | ICD-10-CM |
| S93.134S | Subluxation of interphalangeal joint of right lesser toe(s), sequela                        | Diagnosis     | ICD-10-CM |
| S93.135  | Subluxation of interphalangeal joint of left lesser toe(s)                                  | Diagnosis     | ICD-10-CM |
| S93.135A | Subluxation of interphalangeal joint of left lesser toe(s), initial encounter               | Diagnosis     | ICD-10-CM |
| S93.135D | Subluxation of interphalangeal joint of left lesser toe(s), subsequent encounter            | Diagnosis     | ICD-10-CM |
| S93.135S | Subluxation of interphalangeal joint of left lesser toe(s), sequela                         | Diagnosis     | ICD-10-CM |
| S93.136  | Subluxation of interphalangeal joint of unspecified lesser toe(s)                           | Diagnosis     | ICD-10-CM |
| S93.136A | Subluxation of interphalangeal joint of unspecified lesser toe(s), initial encounter        | Diagnosis     | ICD-10-CM |
| S93.136D | Subluxation of interphalangeal joint of unspecified lesser toe(s), subsequent encounter     | Diagnosis     | ICD-10-CM |
| S93.136S | Subluxation of interphalangeal joint of unspecified lesser toe(s), sequela                  | Diagnosis     | ICD-10-CM |
| S93.139  | Subluxation of interphalangeal joint of unspecified toe(s)                                  | Diagnosis     | ICD-10-CM |
| S93.139A | Subluxation of interphalangeal joint of unspecified toe(s), initial encounter               | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S93.139D | Subluxation of interphalangeal joint of unspecified toe(s), subsequent encounter            | Diagnosis     | ICD-10-CM |
| S93.139S | Subluxation of interphalangeal joint of unspecified toe(s), sequela                         | Diagnosis     | ICD-10-CM |
| S93.14   | Subluxation of metatarsophalangeal joint  | Diagnosis     | ICD-10-CM |
| S93.141  | Subluxation of metatarsophalangeal joint of right great toe                                 | Diagnosis     | ICD-10-CM |
| S93.141A | Subluxation of metatarsophalangeal joint of right great toe, initial encounter              | Diagnosis     | ICD-10-CM |
| S93.141D | Subluxation of metatarsophalangeal joint of right great toe, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S93.141S | Subluxation of metatarsophalangeal joint of right great toe, sequela                        | Diagnosis     | ICD-10-CM |
| S93.142  | Subluxation of metatarsophalangeal joint of left great toe                                  | Diagnosis     | ICD-10-CM |
| S93.142A | Subluxation of metatarsophalangeal joint of left great toe, initial encounter               | Diagnosis     | ICD-10-CM |
| S93.142D | Subluxation of metatarsophalangeal joint of left great toe, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S93.142S | Subluxation of metatarsophalangeal joint of left great toe, sequela                         | Diagnosis     | ICD-10-CM |
| S93.143  | Subluxation of metatarsophalangeal joint of unspecified great toe                           | Diagnosis     | ICD-10-CM |
| S93.143A | Subluxation of metatarsophalangeal joint of unspecified great toe, initial encounter        | Diagnosis     | ICD-10-CM |
| S93.143D | Subluxation of metatarsophalangeal joint of unspecified great toe, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S93.143S | Subluxation of metatarsophalangeal joint of unspecified great toe, sequela                  | Diagnosis     | ICD-10-CM |
| S93.144  | Subluxation of metatarsophalangeal joint of right lesser toe(s)                             | Diagnosis     | ICD-10-CM |
| S93.144A | Subluxation of metatarsophalangeal joint of right lesser toe(s), initial encounter          | Diagnosis     | ICD-10-CM |
| S93.144D | Subluxation of metatarsophalangeal joint of right lesser toe(s), subsequent encounter       | Diagnosis     | ICD-10-CM |
| S93.144S | Subluxation of metatarsophalangeal joint of right lesser toe(s), sequela                    | Diagnosis     | ICD-10-CM |
| S93.145  | Subluxation of metatarsophalangeal joint of left lesser toe(s)                              | Diagnosis     | ICD-10-CM |
| S93.145A | Subluxation of metatarsophalangeal joint of left lesser toe(s), initial encounter           | Diagnosis     | ICD-10-CM |
| S93.145D | Subluxation of metatarsophalangeal joint of left lesser toe(s), subsequent encounter        | Diagnosis     | ICD-10-CM |
| S93.145S | Subluxation of metatarsophalangeal joint of left lesser toe(s), sequela                     | Diagnosis     | ICD-10-CM |
| S93.146  | Subluxation of metatarsophalangeal joint of unspecified lesser toe(s)                       | Diagnosis     | ICD-10-CM |
| S93.146A | Subluxation of metatarsophalangeal joint of unspecified lesser toe(s), initial encounter    | Diagnosis     | ICD-10-CM |
| S93.146D | Subluxation of metatarsophalangeal joint of unspecified lesser toe(s), subsequent encounter | Diagnosis     | ICD-10-CM |
| S93.146S | Subluxation of metatarsophalangeal joint of unspecified lesser toe(s), sequela              | Diagnosis     | ICD-10-CM |
| S93.149  | Subluxation of metatarsophalangeal joint of unspecified toe(s)                              | Diagnosis     | ICD-10-CM |
| S93.149A | Subluxation of metatarsophalangeal joint of unspecified toe(s), initial encounter           | Diagnosis     | ICD-10-CM |
| S93.149D | Subluxation of metatarsophalangeal joint of unspecified toe(s), subsequent encounter        | Diagnosis     | ICD-10-CM |
| S93.149S | Subluxation of metatarsophalangeal joint of unspecified toe(s), sequela                     | Diagnosis     | ICD-10-CM |
| S93.3    | Subluxation and dislocation of foot   | Diagnosis     | ICD-10-CM |
| S93.30   | Unspecified subluxation and dislocation of foot   | Diagnosis     | ICD-10-CM |
| S93.301  | Unspecified subluxation of right foot   | Diagnosis     | ICD-10-CM |
| S93.301A | Unspecified subluxation of right foot, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S93.301D | Unspecified subluxation of right foot, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S93.301S | Unspecified subluxation of right foot, sequela  | Diagnosis     | ICD-10-CM |
| S93.302  | Unspecified subluxation of left foot  | Diagnosis     | ICD-10-CM |
| S93.302A | Unspecified subluxation of left foot, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S93.302D | Unspecified subluxation of left foot, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S93.302S | Unspecified subluxation of left foot, sequela   | Diagnosis     | ICD-10-CM |
| S93.303  | Unspecified subluxation of unspecified foot   | Diagnosis     | ICD-10-CM |
| S93.303A | Unspecified subluxation of unspecified foot, initial encounter                              | Diagnosis     | ICD-10-CM |
| S93.303D | Unspecified subluxation of unspecified foot, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S93.303S | Unspecified subluxation of unspecified foot, sequela  | Diagnosis     | ICD-10-CM |
| S93.304  | Unspecified dislocation of right foot   | Diagnosis     | ICD-10-CM |
| S93.304A | Unspecified dislocation of right foot, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S93.304D | Unspecified dislocation of right foot, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S93.304S | Unspecified dislocation of right foot, sequela  | Diagnosis     | ICD-10-CM |
| S93.305  | Unspecified dislocation of left foot  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S93.305A | Unspecified dislocation of left foot, initial encounter                        | Diagnosis     | ICD-10-CM |
| S93.305D | Unspecified dislocation of left foot, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S93.305S | Unspecified dislocation of left foot, sequela                                  | Diagnosis     | ICD-10-CM |
| S93.306  | Unspecified dislocation of unspecified foot                                    | Diagnosis     | ICD-10-CM |
| S93.306A | Unspecified dislocation of unspecified foot, initial encounter                 | Diagnosis     | ICD-10-CM |
| S93.306D | Unspecified dislocation of unspecified foot, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S93.306S | Unspecified dislocation of unspecified foot, sequela                           | Diagnosis     | ICD-10-CM |
| S93.31   | Subluxation and dislocation of tarsal joint                                    | Diagnosis     | ICD-10-CM |
| S93.311  | Subluxation of tarsal joint of right foot                                      | Diagnosis     | ICD-10-CM |
| S93.311A | Subluxation of tarsal joint of right foot, initial encounter                   | Diagnosis     | ICD-10-CM |
| S93.311D | Subluxation of tarsal joint of right foot, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S93.311S | Subluxation of tarsal joint of right foot, sequela                             | Diagnosis     | ICD-10-CM |
| S93.312  | Subluxation of tarsal joint of left foot                                       | Diagnosis     | ICD-10-CM |
| S93.312A | Subluxation of tarsal joint of left foot, initial encounter                    | Diagnosis     | ICD-10-CM |
| S93.312D | Subluxation of tarsal joint of left foot, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S93.312S | Subluxation of tarsal joint of left foot, sequela                              | Diagnosis     | ICD-10-CM |
| S93.313  | Subluxation of tarsal joint of unspecified foot                                | Diagnosis     | ICD-10-CM |
| S93.313A | Subluxation of tarsal joint of unspecified foot, initial encounter             | Diagnosis     | ICD-10-CM |
| S93.313D | Subluxation of tarsal joint of unspecified foot, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S93.313S | Subluxation of tarsal joint of unspecified foot, sequela                       | Diagnosis     | ICD-10-CM |
| S93.314  | Dislocation of tarsal joint of right foot                                      | Diagnosis     | ICD-10-CM |
| S93.314A | Dislocation of tarsal joint of right foot, initial encounter                   | Diagnosis     | ICD-10-CM |
| S93.314D | Dislocation of tarsal joint of right foot, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S93.314S | Dislocation of tarsal joint of right foot, sequela                             | Diagnosis     | ICD-10-CM |
| S93.315  | Dislocation of tarsal joint of left foot                                       | Diagnosis     | ICD-10-CM |
| S93.315A | Dislocation of tarsal joint of left foot, initial encounter                    | Diagnosis     | ICD-10-CM |
| S93.315D | Dislocation of tarsal joint of left foot, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S93.315S | Dislocation of tarsal joint of left foot, sequela                              | Diagnosis     | ICD-10-CM |
| S93.316  | Dislocation of tarsal joint of unspecified foot                                | Diagnosis     | ICD-10-CM |
| S93.316A | Dislocation of tarsal joint of unspecified foot, initial encounter             | Diagnosis     | ICD-10-CM |
| S93.316D | Dislocation of tarsal joint of unspecified foot, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S93.316S | Dislocation of tarsal joint of unspecified foot, sequela                       | Diagnosis     | ICD-10-CM |
| S93.32   | Subluxation and dislocation of tarsometatarsal joint                           | Diagnosis     | ICD-10-CM |
| S93.321  | Subluxation of tarsometatarsal joint of right foot                             | Diagnosis     | ICD-10-CM |
| S93.321A | Subluxation of tarsometatarsal joint of right foot, initial encounter          | Diagnosis     | ICD-10-CM |
| S93.321D | Subluxation of tarsometatarsal joint of right foot, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S93.321S | Subluxation of tarsometatarsal joint of right foot, sequela                    | Diagnosis     | ICD-10-CM |
| S93.322  | Subluxation of tarsometatarsal joint of left foot                              | Diagnosis     | ICD-10-CM |
| S93.322A | Subluxation of tarsometatarsal joint of left foot, initial encounter           | Diagnosis     | ICD-10-CM |
| S93.322D | Subluxation of tarsometatarsal joint of left foot, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S93.322S | Subluxation of tarsometatarsal joint of left foot, sequela                     | Diagnosis     | ICD-10-CM |
| S93.323  | Subluxation of tarsometatarsal joint of unspecified foot                       | Diagnosis     | ICD-10-CM |
| S93.323A | Subluxation of tarsometatarsal joint of unspecified foot, initial encounter    | Diagnosis     | ICD-10-CM |
| S93.323D | Subluxation of tarsometatarsal joint of unspecified foot, subsequent encounter | Diagnosis     | ICD-10-CM |
| S93.323S | Subluxation of tarsometatarsal joint of unspecified foot, sequela              | Diagnosis     | ICD-10-CM |
| S93.324  | Dislocation of tarsometatarsal joint of right foot                             | Diagnosis     | ICD-10-CM |
| S93.324A | Dislocation of tarsometatarsal joint of right foot, initial encounter          | Diagnosis     | ICD-10-CM |
| S93.324D | Dislocation of tarsometatarsal joint of right foot, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S93.324S | Dislocation of tarsometatarsal joint of right foot, sequela                    | Diagnosis     | ICD-10-CM |
| S93.325  | Dislocation of tarsometatarsal joint of left foot                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S93.325A | Dislocation of tarsometatarsal joint of left foot, initial encounter           | Diagnosis     | ICD-10-CM |
| S93.325D | Dislocation of tarsometatarsal joint of left foot, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S93.325S | Dislocation of tarsometatarsal joint of left foot, sequela                     | Diagnosis     | ICD-10-CM |
| S93.326  | Dislocation of tarsometatarsal joint of unspecified foot                       | Diagnosis     | ICD-10-CM |
| S93.326A | Dislocation of tarsometatarsal joint of unspecified foot, initial encounter    | Diagnosis     | ICD-10-CM |
| S93.326D | Dislocation of tarsometatarsal joint of unspecified foot, subsequent encounter | Diagnosis     | ICD-10-CM |
| S93.326S | Dislocation of tarsometatarsal joint of unspecified foot, sequela              | Diagnosis     | ICD-10-CM |
| S93.33   | Other subluxation and dislocation of foot                                      | Diagnosis     | ICD-10-CM |
| S93.331  | Other subluxation of right foot  | Diagnosis     | ICD-10-CM |
| S93.331A | Other subluxation of right foot, initial encounter                             | Diagnosis     | ICD-10-CM |
| S93.331D | Other subluxation of right foot, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S93.331S | Other subluxation of right foot, sequela                                       | Diagnosis     | ICD-10-CM |
| S93.332  | Other subluxation of left foot   | Diagnosis     | ICD-10-CM |
| S93.332A | Other subluxation of left foot, initial encounter                              | Diagnosis     | ICD-10-CM |
| S93.332D | Other subluxation of left foot, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S93.332S | Other subluxation of left foot, sequela  | Diagnosis     | ICD-10-CM |
| S93.333  | Other subluxation of unspecified foot  | Diagnosis     | ICD-10-CM |
| S93.333A | Other subluxation of unspecified foot, initial encounter                       | Diagnosis     | ICD-10-CM |
| S93.333D | Other subluxation of unspecified foot, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S93.333S | Other subluxation of unspecified foot, sequela                                 | Diagnosis     | ICD-10-CM |
| S93.334  | Other dislocation of right foot  | Diagnosis     | ICD-10-CM |
| S93.334A | Other dislocation of right foot, initial encounter                             | Diagnosis     | ICD-10-CM |
| S93.334D | Other dislocation of right foot, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S93.334S | Other dislocation of right foot, sequela                                       | Diagnosis     | ICD-10-CM |
| S93.335  | Other dislocation of left foot   | Diagnosis     | ICD-10-CM |
| S93.335A | Other dislocation of left foot, initial encounter                              | Diagnosis     | ICD-10-CM |
| S93.335D | Other dislocation of left foot, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S93.335S | Other dislocation of left foot, sequela  | Diagnosis     | ICD-10-CM |
| S93.336  | Other dislocation of unspecified foot  | Diagnosis     | ICD-10-CM |
| S93.336A | Other dislocation of unspecified foot, initial encounter                       | Diagnosis     | ICD-10-CM |
| S93.336D | Other dislocation of unspecified foot, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S93.336S | Other dislocation of unspecified foot, sequela                                 | Diagnosis     | ICD-10-CM |
| S93.4    | Sprain of ankle  | Diagnosis     | ICD-10-CM |
| S93.40   | Sprain of unspecified ligament of ankle  | Diagnosis     | ICD-10-CM |
| S93.401  | Sprain of unspecified ligament of right ankle                                  | Diagnosis     | ICD-10-CM |
| S93.401A | Sprain of unspecified ligament of right ankle, initial encounter               | Diagnosis     | ICD-10-CM |
| S93.401D | Sprain of unspecified ligament of right ankle, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S93.401S | Sprain of unspecified ligament of right ankle, sequela                         | Diagnosis     | ICD-10-CM |
| S93.402  | Sprain of unspecified ligament of left ankle                                   | Diagnosis     | ICD-10-CM |
| S93.402A | Sprain of unspecified ligament of left ankle, initial encounter                | Diagnosis     | ICD-10-CM |
| S93.402D | Sprain of unspecified ligament of left ankle, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S93.402S | Sprain of unspecified ligament of left ankle, sequela                          | Diagnosis     | ICD-10-CM |
| S93.409  | Sprain of unspecified ligament of unspecified ankle                            | Diagnosis     | ICD-10-CM |
| S93.409A | Sprain of unspecified ligament of unspecified ankle, initial encounter         | Diagnosis     | ICD-10-CM |
| S93.409D | Sprain of unspecified ligament of unspecified ankle, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S93.409S | Sprain of unspecified ligament of unspecified ankle, sequela                   | Diagnosis     | ICD-10-CM |
| S93.41   | Sprain of calcaneofibular ligament   | Diagnosis     | ICD-10-CM |
| S93.411  | Sprain of calcaneofibular ligament of right ankle                              | Diagnosis     | ICD-10-CM |
| S93.411A | Sprain of calcaneofibular ligament of right ankle, initial encounter           | Diagnosis     | ICD-10-CM |
| S93.411D | Sprain of calcaneofibular ligament of right ankle, subsequent encounter        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S93.411S | Sprain of calcaneofibular ligament of right ankle, sequela                    | Diagnosis     | ICD-10-CM |
| S93.412  | Sprain of calcaneofibular ligament of left ankle                              | Diagnosis     | ICD-10-CM |
| S93.412A | Sprain of calcaneofibular ligament of left ankle, initial encounter           | Diagnosis     | ICD-10-CM |
| S93.412D | Sprain of calcaneofibular ligament of left ankle, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S93.412S | Sprain of calcaneofibular ligament of left ankle, sequela                     | Diagnosis     | ICD-10-CM |
| S93.419  | Sprain of calcaneofibular ligament of unspecified ankle                       | Diagnosis     | ICD-10-CM |
| S93.419A | Sprain of calcaneofibular ligament of unspecified ankle, initial encounter    | Diagnosis     | ICD-10-CM |
| S93.419D | Sprain of calcaneofibular ligament of unspecified ankle, subsequent encounter | Diagnosis     | ICD-10-CM |
| S93.419S | Sprain of calcaneofibular ligament of unspecified ankle, sequela              | Diagnosis     | ICD-10-CM |
| S93.42   | Sprain of deltoid ligament  | Diagnosis     | ICD-10-CM |
| S93.421  | Sprain of deltoid ligament of right ankle                                     | Diagnosis     | ICD-10-CM |
| S93.421A | Sprain of deltoid ligament of right ankle, initial encounter                  | Diagnosis     | ICD-10-CM |
| S93.421D | Sprain of deltoid ligament of right ankle, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S93.421S | Sprain of deltoid ligament of right ankle, sequela                            | Diagnosis     | ICD-10-CM |
| S93.422  | Sprain of deltoid ligament of left ankle                                      | Diagnosis     | ICD-10-CM |
| S93.422A | Sprain of deltoid ligament of left ankle, initial encounter                   | Diagnosis     | ICD-10-CM |
| S93.422D | Sprain of deltoid ligament of left ankle, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S93.422S | Sprain of deltoid ligament of left ankle, sequela                             | Diagnosis     | ICD-10-CM |
| S93.429  | Sprain of deltoid ligament of unspecified ankle                               | Diagnosis     | ICD-10-CM |
| S93.429A | Sprain of deltoid ligament of unspecified ankle, initial encounter            | Diagnosis     | ICD-10-CM |
| S93.429D | Sprain of deltoid ligament of unspecified ankle, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S93.429S | Sprain of deltoid ligament of unspecified ankle, sequela                      | Diagnosis     | ICD-10-CM |
| S93.43   | Sprain of tibiofibular ligament   | Diagnosis     | ICD-10-CM |
| S93.431  | Sprain of tibiofibular ligament of right ankle                                | Diagnosis     | ICD-10-CM |
| S93.431A | Sprain of tibiofibular ligament of right ankle, initial encounter             | Diagnosis     | ICD-10-CM |
| S93.431D | Sprain of tibiofibular ligament of right ankle, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S93.431S | Sprain of tibiofibular ligament of right ankle, sequela                       | Diagnosis     | ICD-10-CM |
| S93.432  | Sprain of tibiofibular ligament of left ankle                                 | Diagnosis     | ICD-10-CM |
| S93.432A | Sprain of tibiofibular ligament of left ankle, initial encounter              | Diagnosis     | ICD-10-CM |
| S93.432D | Sprain of tibiofibular ligament of left ankle, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S93.432S | Sprain of tibiofibular ligament of left ankle, sequela                        | Diagnosis     | ICD-10-CM |
| S93.439  | Sprain of tibiofibular ligament of unspecified ankle                          | Diagnosis     | ICD-10-CM |
| S93.439A | Sprain of tibiofibular ligament of unspecified ankle, initial encounter       | Diagnosis     | ICD-10-CM |
| S93.439D | Sprain of tibiofibular ligament of unspecified ankle, subsequent encounter    | Diagnosis     | ICD-10-CM |
| S93.439S | Sprain of tibiofibular ligament of unspecified ankle, sequela                 | Diagnosis     | ICD-10-CM |
| S93.49   | Sprain of other ligament of ankle   | Diagnosis     | ICD-10-CM |
| S93.491  | Sprain of other ligament of right ankle                                       | Diagnosis     | ICD-10-CM |
| S93.491A | Sprain of other ligament of right ankle, initial encounter                    | Diagnosis     | ICD-10-CM |
| S93.491D | Sprain of other ligament of right ankle, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S93.491S | Sprain of other ligament of right ankle, sequela                              | Diagnosis     | ICD-10-CM |
| S93.492  | Sprain of other ligament of left ankle  | Diagnosis     | ICD-10-CM |
| S93.492A | Sprain of other ligament of left ankle, initial encounter                     | Diagnosis     | ICD-10-CM |
| S93.492D | Sprain of other ligament of left ankle, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S93.492S | Sprain of other ligament of left ankle, sequela                               | Diagnosis     | ICD-10-CM |
| S93.499  | Sprain of other ligament of unspecified ankle                                 | Diagnosis     | ICD-10-CM |
| S93.499A | Sprain of other ligament of unspecified ankle, initial encounter              | Diagnosis     | ICD-10-CM |
| S93.499D | Sprain of other ligament of unspecified ankle, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S93.499S | Sprain of other ligament of unspecified ankle, sequela                        | Diagnosis     | ICD-10-CM |
| S93.5    | Sprain of toe   | Diagnosis     | ICD-10-CM |
| S93.50   | Unspecified sprain of toe   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S93.501  | Unspecified sprain of right great toe  | Diagnosis     | ICD-10-CM |
| S93.501A | Unspecified sprain of right great toe, initial encounter                       | Diagnosis     | ICD-10-CM |
| S93.501D | Unspecified sprain of right great toe, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S93.501S | Unspecified sprain of right great toe, sequela                                 | Diagnosis     | ICD-10-CM |
| S93.502  | Unspecified sprain of left great toe   | Diagnosis     | ICD-10-CM |
| S93.502A | Unspecified sprain of left great toe, initial encounter                        | Diagnosis     | ICD-10-CM |
| S93.502D | Unspecified sprain of left great toe, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S93.502S | Unspecified sprain of left great toe, sequela                                  | Diagnosis     | ICD-10-CM |
| S93.503  | Unspecified sprain of unspecified great toe                                    | Diagnosis     | ICD-10-CM |
| S93.503A | Unspecified sprain of unspecified great toe, initial encounter                 | Diagnosis     | ICD-10-CM |
| S93.503D | Unspecified sprain of unspecified great toe, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S93.503S | Unspecified sprain of unspecified great toe, sequela                           | Diagnosis     | ICD-10-CM |
| S93.504  | Unspecified sprain of right lesser toe(s)                                      | Diagnosis     | ICD-10-CM |
| S93.504A | Unspecified sprain of right lesser toe(s), initial encounter                   | Diagnosis     | ICD-10-CM |
| S93.504D | Unspecified sprain of right lesser toe(s), subsequent encounter                | Diagnosis     | ICD-10-CM |
| S93.504S | Unspecified sprain of right lesser toe(s), sequela                             | Diagnosis     | ICD-10-CM |
| S93.505  | Unspecified sprain of left lesser toe(s)                                       | Diagnosis     | ICD-10-CM |
| S93.505A | Unspecified sprain of left lesser toe(s), initial encounter                    | Diagnosis     | ICD-10-CM |
| S93.505D | Unspecified sprain of left lesser toe(s), subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S93.505S | Unspecified sprain of left lesser toe(s), sequela                              | Diagnosis     | ICD-10-CM |
| S93.506  | Unspecified sprain of unspecified lesser toe(s)                                | Diagnosis     | ICD-10-CM |
| S93.506A | Unspecified sprain of unspecified lesser toe(s), initial encounter             | Diagnosis     | ICD-10-CM |
| S93.506D | Unspecified sprain of unspecified lesser toe(s), subsequent encounter          | Diagnosis     | ICD-10-CM |
| S93.506S | Unspecified sprain of unspecified lesser toe(s), sequela                       | Diagnosis     | ICD-10-CM |
| S93.509  | Unspecified sprain of unspecified toe(s)                                       | Diagnosis     | ICD-10-CM |
| S93.509A | Unspecified sprain of unspecified toe(s), initial encounter                    | Diagnosis     | ICD-10-CM |
| S93.509D | Unspecified sprain of unspecified toe(s), subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S93.509S | Unspecified sprain of unspecified toe(s), sequela                              | Diagnosis     | ICD-10-CM |
| S93.51   | Sprain of interphalangeal joint of toe   | Diagnosis     | ICD-10-CM |
| S93.511  | Sprain of interphalangeal joint of right great toe                             | Diagnosis     | ICD-10-CM |
| S93.511A | Sprain of interphalangeal joint of right great toe, initial encounter          | Diagnosis     | ICD-10-CM |
| S93.511D | Sprain of interphalangeal joint of right great toe, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S93.511S | Sprain of interphalangeal joint of right great toe, sequela                    | Diagnosis     | ICD-10-CM |
| S93.512  | Sprain of interphalangeal joint of left great toe                              | Diagnosis     | ICD-10-CM |
| S93.512A | Sprain of interphalangeal joint of left great toe, initial encounter           | Diagnosis     | ICD-10-CM |
| S93.512D | Sprain of interphalangeal joint of left great toe, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S93.512S | Sprain of interphalangeal joint of left great toe, sequela                     | Diagnosis     | ICD-10-CM |
| S93.513  | Sprain of interphalangeal joint of unspecified great toe                       | Diagnosis     | ICD-10-CM |
| S93.513A | Sprain of interphalangeal joint of unspecified great toe, initial encounter    | Diagnosis     | ICD-10-CM |
| S93.513D | Sprain of interphalangeal joint of unspecified great toe, subsequent encounter | Diagnosis     | ICD-10-CM |
| S93.513S | Sprain of interphalangeal joint of unspecified great toe, sequela              | Diagnosis     | ICD-10-CM |
| S93.514  | Sprain of interphalangeal joint of right lesser toe(s)                         | Diagnosis     | ICD-10-CM |
| S93.514A | Sprain of interphalangeal joint of right lesser toe(s), initial encounter      | Diagnosis     | ICD-10-CM |
| S93.514D | Sprain of interphalangeal joint of right lesser toe(s), subsequent encounter   | Diagnosis     | ICD-10-CM |
| S93.514S | Sprain of interphalangeal joint of right lesser toe(s), sequela                | Diagnosis     | ICD-10-CM |
| S93.515  | Sprain of interphalangeal joint of left lesser toe(s)                          | Diagnosis     | ICD-10-CM |
| S93.515A | Sprain of interphalangeal joint of left lesser toe(s), initial encounter       | Diagnosis     | ICD-10-CM |
| S93.515D | Sprain of interphalangeal joint of left lesser toe(s), subsequent encounter    | Diagnosis     | ICD-10-CM |
| S93.515S | Sprain of interphalangeal joint of left lesser toe(s), sequela                 | Diagnosis     | ICD-10-CM |
| S93.516  | Sprain of interphalangeal joint of unspecified lesser toe(s)                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S93.516A | Sprain of interphalangeal joint of unspecified lesser toe(s), initial encounter        | Diagnosis     | ICD-10-CM |
| S93.516D | Sprain of interphalangeal joint of unspecified lesser toe(s), subsequent encounter     | Diagnosis     | ICD-10-CM |
| S93.516S | Sprain of interphalangeal joint of unspecified lesser toe(s), sequela                  | Diagnosis     | ICD-10-CM |
| S93.519  | Sprain of interphalangeal joint of unspecified toe(s)                                  | Diagnosis     | ICD-10-CM |
| S93.519A | Sprain of interphalangeal joint of unspecified toe(s), initial encounter               | Diagnosis     | ICD-10-CM |
| S93.519D | Sprain of interphalangeal joint of unspecified toe(s), subsequent encounter            | Diagnosis     | ICD-10-CM |
| S93.519S | Sprain of interphalangeal joint of unspecified toe(s), sequela                         | Diagnosis     | ICD-10-CM |
| S93.52   | Sprain of metatarsophalangeal joint of toe   | Diagnosis     | ICD-10-CM |
| S93.521  | Sprain of metatarsophalangeal joint of right great toe                                 | Diagnosis     | ICD-10-CM |
| S93.521A | Sprain of metatarsophalangeal joint of right great toe, initial encounter              | Diagnosis     | ICD-10-CM |
| S93.521D | Sprain of metatarsophalangeal joint of right great toe, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S93.521S | Sprain of metatarsophalangeal joint of right great toe, sequela                        | Diagnosis     | ICD-10-CM |
| S93.522  | Sprain of metatarsophalangeal joint of left great toe                                  | Diagnosis     | ICD-10-CM |
| S93.522A | Sprain of metatarsophalangeal joint of left great toe, initial encounter               | Diagnosis     | ICD-10-CM |
| S93.522D | Sprain of metatarsophalangeal joint of left great toe, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S93.522S | Sprain of metatarsophalangeal joint of left great toe, sequela                         | Diagnosis     | ICD-10-CM |
| S93.523  | Sprain of metatarsophalangeal joint of unspecified great toe                           | Diagnosis     | ICD-10-CM |
| S93.523A | Sprain of metatarsophalangeal joint of unspecified great toe, initial encounter        | Diagnosis     | ICD-10-CM |
| S93.523D | Sprain of metatarsophalangeal joint of unspecified great toe, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S93.523S | Sprain of metatarsophalangeal joint of unspecified great toe, sequela                  | Diagnosis     | ICD-10-CM |
| S93.524  | Sprain of metatarsophalangeal joint of right lesser toe(s)                             | Diagnosis     | ICD-10-CM |
| S93.524A | Sprain of metatarsophalangeal joint of right lesser toe(s), initial encounter          | Diagnosis     | ICD-10-CM |
| S93.524D | Sprain of metatarsophalangeal joint of right lesser toe(s), subsequent encounter       | Diagnosis     | ICD-10-CM |
| S93.524S | Sprain of metatarsophalangeal joint of right lesser toe(s), sequela                    | Diagnosis     | ICD-10-CM |
| S93.525  | Sprain of metatarsophalangeal joint of left lesser toe(s)                              | Diagnosis     | ICD-10-CM |
| S93.525A | Sprain of metatarsophalangeal joint of left lesser toe(s), initial encounter           | Diagnosis     | ICD-10-CM |
| S93.525D | Sprain of metatarsophalangeal joint of left lesser toe(s), subsequent encounter        | Diagnosis     | ICD-10-CM |
| S93.525S | Sprain of metatarsophalangeal joint of left lesser toe(s), sequela                     | Diagnosis     | ICD-10-CM |
| S93.526  | Sprain of metatarsophalangeal joint of unspecified lesser toe(s)                       | Diagnosis     | ICD-10-CM |
| S93.526A | Sprain of metatarsophalangeal joint of unspecified lesser toe(s), initial encounter    | Diagnosis     | ICD-10-CM |
| S93.526D | Sprain of metatarsophalangeal joint of unspecified lesser toe(s), subsequent encounter | Diagnosis     | ICD-10-CM |
| S93.526S | Sprain of metatarsophalangeal joint of unspecified lesser toe(s), sequela              | Diagnosis     | ICD-10-CM |
| S93.529  | Sprain of metatarsophalangeal joint of unspecified toe(s)                              | Diagnosis     | ICD-10-CM |
| S93.529A | Sprain of metatarsophalangeal joint of unspecified toe(s), initial encounter           | Diagnosis     | ICD-10-CM |
| S93.529D | Sprain of metatarsophalangeal joint of unspecified toe(s), subsequent encounter        | Diagnosis     | ICD-10-CM |
| S93.529S | Sprain of metatarsophalangeal joint of unspecified toe(s), sequela                     | Diagnosis     | ICD-10-CM |
| S93.6    | Sprain of foot   | Diagnosis     | ICD-10-CM |
| S93.60   | Unspecified sprain of foot   | Diagnosis     | ICD-10-CM |
| S93.601  | Unspecified sprain of right foot   | Diagnosis     | ICD-10-CM |
| S93.601A | Unspecified sprain of right foot, initial encounter                                    | Diagnosis     | ICD-10-CM |
| S93.601D | Unspecified sprain of right foot, subsequent encounter                                 | Diagnosis     | ICD-10-CM |
| S93.601S | Unspecified sprain of right foot, sequela  | Diagnosis     | ICD-10-CM |
| S93.602  | Unspecified sprain of left foot  | Diagnosis     | ICD-10-CM |
| S93.602A | Unspecified sprain of left foot, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S93.602D | Unspecified sprain of left foot, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S93.602S | Unspecified sprain of left foot, sequela   | Diagnosis     | ICD-10-CM |
| S93.609  | Unspecified sprain of unspecified foot   | Diagnosis     | ICD-10-CM |
| S93.609A | Unspecified sprain of unspecified foot, initial encounter                              | Diagnosis     | ICD-10-CM |
| S93.609D | Unspecified sprain of unspecified foot, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S93.609S | Unspecified sprain of unspecified foot, sequela  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S93.61   | Sprain of tarsal ligament of foot  | Diagnosis     | ICD-10-CM |
| S93.611  | Sprain of tarsal ligament of right foot                                      | Diagnosis     | ICD-10-CM |
| S93.611A | Sprain of tarsal ligament of right foot, initial encounter                   | Diagnosis     | ICD-10-CM |
| S93.611D | Sprain of tarsal ligament of right foot, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S93.611S | Sprain of tarsal ligament of right foot, sequela                             | Diagnosis     | ICD-10-CM |
| S93.612  | Sprain of tarsal ligament of left foot                                       | Diagnosis     | ICD-10-CM |
| S93.612A | Sprain of tarsal ligament of left foot, initial encounter                    | Diagnosis     | ICD-10-CM |
| S93.612D | Sprain of tarsal ligament of left foot, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S93.612S | Sprain of tarsal ligament of left foot, sequela                              | Diagnosis     | ICD-10-CM |
| S93.619  | Sprain of tarsal ligament of unspecified foot                                | Diagnosis     | ICD-10-CM |
| S93.619A | Sprain of tarsal ligament of unspecified foot, initial encounter             | Diagnosis     | ICD-10-CM |
| S93.619D | Sprain of tarsal ligament of unspecified foot, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S93.619S | Sprain of tarsal ligament of unspecified foot, sequela                       | Diagnosis     | ICD-10-CM |
| S93.62   | Sprain of tarsometatarsal ligament of foot                                   | Diagnosis     | ICD-10-CM |
| S93.621  | Sprain of tarsometatarsal ligament of right foot                             | Diagnosis     | ICD-10-CM |
| S93.621A | Sprain of tarsometatarsal ligament of right foot, initial encounter          | Diagnosis     | ICD-10-CM |
| S93.621D | Sprain of tarsometatarsal ligament of right foot, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S93.621S | Sprain of tarsometatarsal ligament of right foot, sequela                    | Diagnosis     | ICD-10-CM |
| S93.622  | Sprain of tarsometatarsal ligament of left foot                              | Diagnosis     | ICD-10-CM |
| S93.622A | Sprain of tarsometatarsal ligament of left foot, initial encounter           | Diagnosis     | ICD-10-CM |
| S93.622D | Sprain of tarsometatarsal ligament of left foot, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S93.622S | Sprain of tarsometatarsal ligament of left foot, sequela                     | Diagnosis     | ICD-10-CM |
| S93.629  | Sprain of tarsometatarsal ligament of unspecified foot                       | Diagnosis     | ICD-10-CM |
| S93.629A | Sprain of tarsometatarsal ligament of unspecified foot, initial encounter    | Diagnosis     | ICD-10-CM |
| S93.629D | Sprain of tarsometatarsal ligament of unspecified foot, subsequent encounter | Diagnosis     | ICD-10-CM |
| S93.629S | Sprain of tarsometatarsal ligament of unspecified foot, sequela              | Diagnosis     | ICD-10-CM |
| S93.69   | Other sprain of foot   | Diagnosis     | ICD-10-CM |
| S93.691  | Other sprain of right foot   | Diagnosis     | ICD-10-CM |
| S93.691A | Other sprain of right foot, initial encounter                                | Diagnosis     | ICD-10-CM |
| S93.691D | Other sprain of right foot, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S93.691S | Other sprain of right foot, sequela  | Diagnosis     | ICD-10-CM |
| S93.692  | Other sprain of left foot  | Diagnosis     | ICD-10-CM |
| S93.692A | Other sprain of left foot, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S93.692D | Other sprain of left foot, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S93.692S | Other sprain of left foot, sequela   | Diagnosis     | ICD-10-CM |
| S93.699  | Other sprain of unspecified foot   | Diagnosis     | ICD-10-CM |
| S93.699A | Other sprain of unspecified foot, initial encounter                          | Diagnosis     | ICD-10-CM |
| S93.699D | Other sprain of unspecified foot, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S93.699S | Other sprain of unspecified foot, sequela                                    | Diagnosis     | ICD-10-CM |
| S94      | Injury of nerves at ankle and foot level                                     | Diagnosis     | ICD-10-CM |
| S94.0    | Injury of lateral plantar nerve  | Diagnosis     | ICD-10-CM |
| S94.00   | Injury of lateral plantar nerve, unspecified leg                             | Diagnosis     | ICD-10-CM |
| S94.00XA | Injury of lateral plantar nerve, unspecified leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S94.00XD | Injury of lateral plantar nerve, unspecified leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S94.00XS | Injury of lateral plantar nerve, unspecified leg, sequela                    | Diagnosis     | ICD-10-CM |
| S94.01   | Injury of lateral plantar nerve, right leg                                   | Diagnosis     | ICD-10-CM |
| S94.01XA | Injury of lateral plantar nerve, right leg, initial encounter                | Diagnosis     | ICD-10-CM |
| S94.01XD | Injury of lateral plantar nerve, right leg, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S94.01XS | Injury of lateral plantar nerve, right leg, sequela                          | Diagnosis     | ICD-10-CM |
| S94.02   | Injury of lateral plantar nerve, left leg                                    | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S94.02XA | Injury of lateral plantar nerve, left leg, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S94.02XD | Injury of lateral plantar nerve, left leg, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S94.02XS | Injury of lateral plantar nerve, left leg, sequela   | Diagnosis     | ICD-10-CM |
| S94.1    | Injury of medial plantar nerve   | Diagnosis     | ICD-10-CM |
| S94.10   | Injury of medial plantar nerve, unspecified leg  | Diagnosis     | ICD-10-CM |
| S94.10XA | Injury of medial plantar nerve, unspecified leg, initial encounter                               | Diagnosis     | ICD-10-CM |
| S94.10XD | Injury of medial plantar nerve, unspecified leg, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S94.10XS | Injury of medial plantar nerve, unspecified leg, sequela   | Diagnosis     | ICD-10-CM |
| S94.11   | Injury of medial plantar nerve, right leg  | Diagnosis     | ICD-10-CM |
| S94.11XA | Injury of medial plantar nerve, right leg, initial encounter                                     | Diagnosis     | ICD-10-CM |
| S94.11XD | Injury of medial plantar nerve, right leg, subsequent encounter                                  | Diagnosis     | ICD-10-CM |
| S94.11XS | Injury of medial plantar nerve, right leg, sequela   | Diagnosis     | ICD-10-CM |
| S94.12   | Injury of medial plantar nerve, left leg   | Diagnosis     | ICD-10-CM |
| S94.12XA | Injury of medial plantar nerve, left leg, initial encounter                                      | Diagnosis     | ICD-10-CM |
| S94.12XD | Injury of medial plantar nerve, left leg, subsequent encounter                                   | Diagnosis     | ICD-10-CM |
| S94.12XS | Injury of medial plantar nerve, left leg, sequela  | Diagnosis     | ICD-10-CM |
| S94.2    | Injury of deep peroneal nerve at ankle and foot level  | Diagnosis     | ICD-10-CM |
| S94.20   | Injury of deep peroneal nerve at ankle and foot level, unspecified leg                           | Diagnosis     | ICD-10-CM |
| S94.20XA | Injury of deep peroneal nerve at ankle and foot level, unspecified leg, initial encounter        | Diagnosis     | ICD-10-CM |
| S94.20XD | Injury of deep peroneal nerve at ankle and foot level, unspecified leg, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S94.20XS | Injury of deep peroneal nerve at ankle and foot level, unspecified leg, sequela                  | Diagnosis     | ICD-10-CM |
| S94.21   | Injury of deep peroneal nerve at ankle and foot level, right leg                                 | Diagnosis     | ICD-10-CM |
| S94.21XA | Injury of deep peroneal nerve at ankle and foot level, right leg, initial encounter              | Diagnosis     | ICD-10-CM |
| S94.21XD | Injury of deep peroneal nerve at ankle and foot level, right leg, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S94.21XS | Injury of deep peroneal nerve at ankle and foot level, right leg, sequela                        | Diagnosis     | ICD-10-CM |
| S94.22   | Injury of deep peroneal nerve at ankle and foot level, left leg                                  | Diagnosis     | ICD-10-CM |
| S94.22XA | Injury of deep peroneal nerve at ankle and foot level, left leg, initial encounter               | Diagnosis     | ICD-10-CM |
| S94.22XD | Injury of deep peroneal nerve at ankle and foot level, left leg, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S94.22XS | Injury of deep peroneal nerve at ankle and foot level, left leg, sequela                         | Diagnosis     | ICD-10-CM |
| S94.3    | Injury of cutaneous sensory nerve at ankle and foot level  | Diagnosis     | ICD-10-CM |
| S94.30   | Injury of cutaneous sensory nerve at ankle and foot level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S94.30XA | Injury of cutaneous sensory nerve at ankle and foot level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S94.30XD | Injury of cutaneous sensory nerve at ankle and foot level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S94.30XS | Injury of cutaneous sensory nerve at ankle and foot level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S94.31   | Injury of cutaneous sensory nerve at ankle and foot level, right leg                             | Diagnosis     | ICD-10-CM |
| S94.31XA | Injury of cutaneous sensory nerve at ankle and foot level, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S94.31XD | Injury of cutaneous sensory nerve at ankle and foot level, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S94.31XS | Injury of cutaneous sensory nerve at ankle and foot level, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S94.32   | Injury of cutaneous sensory nerve at ankle and foot level, left leg                              | Diagnosis     | ICD-10-CM |
| S94.32XA | Injury of cutaneous sensory nerve at ankle and foot level, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S94.32XD | Injury of cutaneous sensory nerve at ankle and foot level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S94.32XS | Injury of cutaneous sensory nerve at ankle and foot level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S94.8    | Injury of other nerves at ankle and foot level   | Diagnosis     | ICD-10-CM |
| S94.8X   | Injury of other nerves at ankle and foot level   | Diagnosis     | ICD-10-CM |
| S94.8X1  | Injury of other nerves at ankle and foot level, right leg  | Diagnosis     | ICD-10-CM |
| S94.8X1A | Injury of other nerves at ankle and foot level, right leg, initial encounter                     | Diagnosis     | ICD-10-CM |
| S94.8X1D | Injury of other nerves at ankle and foot level, right leg, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S94.8X1S | Injury of other nerves at ankle and foot level, right leg, sequela                               | Diagnosis     | ICD-10-CM |
| S94.8X2  | Injury of other nerves at ankle and foot level, left leg   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S94.8X2A | Injury of other nerves at ankle and foot level, left leg, initial encounter                | Diagnosis     | ICD-10-CM |
| S94.8X2D | Injury of other nerves at ankle and foot level, left leg, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S94.8X2S | Injury of other nerves at ankle and foot level, left leg, sequela                          | Diagnosis     | ICD-10-CM |
| S94.8X9  | Injury of other nerves at ankle and foot level, unspecified leg                            | Diagnosis     | ICD-10-CM |
| S94.8X9A | Injury of other nerves at ankle and foot level, unspecified leg, initial encounter         | Diagnosis     | ICD-10-CM |
| S94.8X9D | Injury of other nerves at ankle and foot level, unspecified leg, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S94.8X9S | Injury of other nerves at ankle and foot level, unspecified leg, sequela                   | Diagnosis     | ICD-10-CM |
| S94.9    | Injury of unspecified nerve at ankle and foot level  | Diagnosis     | ICD-10-CM |
| S94.90   | Injury of unspecified nerve at ankle and foot level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S94.90XA | Injury of unspecified nerve at ankle and foot level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S94.90XD | Injury of unspecified nerve at ankle and foot level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S94.90XS | Injury of unspecified nerve at ankle and foot level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S94.91   | Injury of unspecified nerve at ankle and foot level, right leg                             | Diagnosis     | ICD-10-CM |
| S94.91XA | Injury of unspecified nerve at ankle and foot level, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S94.91XD | Injury of unspecified nerve at ankle and foot level, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S94.91XS | Injury of unspecified nerve at ankle and foot level, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S94.92   | Injury of unspecified nerve at ankle and foot level, left leg                              | Diagnosis     | ICD-10-CM |
| S94.92XA | Injury of unspecified nerve at ankle and foot level, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S94.92XD | Injury of unspecified nerve at ankle and foot level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S94.92XS | Injury of unspecified nerve at ankle and foot level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S95      | Injury of blood vessels at ankle and foot level  | Diagnosis     | ICD-10-CM |
| S95.0    | Injury of dorsal artery of foot  | Diagnosis     | ICD-10-CM |
| S95.00   | Unspecified injury of dorsal artery of foot  | Diagnosis     | ICD-10-CM |
| S95.001  | Unspecified injury of dorsal artery of right foot  | Diagnosis     | ICD-10-CM |
| S95.001A | Unspecified injury of dorsal artery of right foot, initial encounter                       | Diagnosis     | ICD-10-CM |
| S95.001D | Unspecified injury of dorsal artery of right foot, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S95.001S | Unspecified injury of dorsal artery of right foot, sequela                                 | Diagnosis     | ICD-10-CM |
| S95.002  | Unspecified injury of dorsal artery of left foot   | Diagnosis     | ICD-10-CM |
| S95.002A | Unspecified injury of dorsal artery of left foot, initial encounter                        | Diagnosis     | ICD-10-CM |
| S95.002D | Unspecified injury of dorsal artery of left foot, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S95.002S | Unspecified injury of dorsal artery of left foot, sequela                                  | Diagnosis     | ICD-10-CM |
| S95.009  | Unspecified injury of dorsal artery of unspecified foot                                    | Diagnosis     | ICD-10-CM |
| S95.009A | Unspecified injury of dorsal artery of unspecified foot, initial encounter                 | Diagnosis     | ICD-10-CM |
| S95.009D | Unspecified injury of dorsal artery of unspecified foot, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S95.009S | Unspecified injury of dorsal artery of unspecified foot, sequela                           | Diagnosis     | ICD-10-CM |
| S95.01   | Laceration of dorsal artery of foot  | Diagnosis     | ICD-10-CM |
| S95.011  | Laceration of dorsal artery of right foot  | Diagnosis     | ICD-10-CM |
| S95.011A | Laceration of dorsal artery of right foot, initial encounter                               | Diagnosis     | ICD-10-CM |
| S95.011D | Laceration of dorsal artery of right foot, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S95.011S | Laceration of dorsal artery of right foot, sequela   | Diagnosis     | ICD-10-CM |
| S95.012  | Laceration of dorsal artery of left foot   | Diagnosis     | ICD-10-CM |
| S95.012A | Laceration of dorsal artery of left foot, initial encounter                                | Diagnosis     | ICD-10-CM |
| S95.012D | Laceration of dorsal artery of left foot, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S95.012S | Laceration of dorsal artery of left foot, sequela  | Diagnosis     | ICD-10-CM |
| S95.019  | Laceration of dorsal artery of unspecified foot  | Diagnosis     | ICD-10-CM |
| S95.019A | Laceration of dorsal artery of unspecified foot, initial encounter                         | Diagnosis     | ICD-10-CM |
| S95.019D | Laceration of dorsal artery of unspecified foot, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S95.019S | Laceration of dorsal artery of unspecified foot, sequela                                   | Diagnosis     | ICD-10-CM |
| S95.09   | Other specified injury of dorsal artery of foot  | Diagnosis     | ICD-10-CM |
| S95.091  | Other specified injury of dorsal artery of right foot                                      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S95.091A | Other specified injury of dorsal artery of right foot, initial encounter           | Diagnosis     | ICD-10-CM |
| S95.091D | Other specified injury of dorsal artery of right foot, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S95.091S | Other specified injury of dorsal artery of right foot, sequela                     | Diagnosis     | ICD-10-CM |
| S95.092  | Other specified injury of dorsal artery of left foot                               | Diagnosis     | ICD-10-CM |
| S95.092A | Other specified injury of dorsal artery of left foot, initial encounter            | Diagnosis     | ICD-10-CM |
| S95.092D | Other specified injury of dorsal artery of left foot, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S95.092S | Other specified injury of dorsal artery of left foot, sequela                      | Diagnosis     | ICD-10-CM |
| S95.099  | Other specified injury of dorsal artery of unspecified foot                        | Diagnosis     | ICD-10-CM |
| S95.099A | Other specified injury of dorsal artery of unspecified foot, initial encounter     | Diagnosis     | ICD-10-CM |
| S95.099D | Other specified injury of dorsal artery of unspecified foot, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S95.099S | Other specified injury of dorsal artery of unspecified foot, sequela               | Diagnosis     | ICD-10-CM |
| S95.1    | Injury of plantar artery of foot   | Diagnosis     | ICD-10-CM |
| S95.10   | Unspecified injury of plantar artery of foot                                       | Diagnosis     | ICD-10-CM |
| S95.101  | Unspecified injury of plantar artery of right foot                                 | Diagnosis     | ICD-10-CM |
| S95.101A | Unspecified injury of plantar artery of right foot, initial encounter              | Diagnosis     | ICD-10-CM |
| S95.101D | Unspecified injury of plantar artery of right foot, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S95.101S | Unspecified injury of plantar artery of right foot, sequela                        | Diagnosis     | ICD-10-CM |
| S95.102  | Unspecified injury of plantar artery of left foot                                  | Diagnosis     | ICD-10-CM |
| S95.102A | Unspecified injury of plantar artery of left foot, initial encounter               | Diagnosis     | ICD-10-CM |
| S95.102D | Unspecified injury of plantar artery of left foot, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S95.102S | Unspecified injury of plantar artery of left foot, sequela                         | Diagnosis     | ICD-10-CM |
| S95.109  | Unspecified injury of plantar artery of unspecified foot                           | Diagnosis     | ICD-10-CM |
| S95.109A | Unspecified injury of plantar artery of unspecified foot, initial encounter        | Diagnosis     | ICD-10-CM |
| S95.109D | Unspecified injury of plantar artery of unspecified foot, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S95.109S | Unspecified injury of plantar artery of unspecified foot, sequela                  | Diagnosis     | ICD-10-CM |
| S95.11   | Laceration of plantar artery of foot   | Diagnosis     | ICD-10-CM |
| S95.111  | Laceration of plantar artery of right foot   | Diagnosis     | ICD-10-CM |
| S95.111A | Laceration of plantar artery of right foot, initial encounter                      | Diagnosis     | ICD-10-CM |
| S95.111D | Laceration of plantar artery of right foot, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S95.111S | Laceration of plantar artery of right foot, sequela                                | Diagnosis     | ICD-10-CM |
| S95.112  | Laceration of plantar artery of left foot  | Diagnosis     | ICD-10-CM |
| S95.112A | Laceration of plantar artery of left foot, initial encounter                       | Diagnosis     | ICD-10-CM |
| S95.112D | Laceration of plantar artery of left foot, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S95.112S | Laceration of plantar artery of left foot, sequela                                 | Diagnosis     | ICD-10-CM |
| S95.119  | Laceration of plantar artery of unspecified foot                                   | Diagnosis     | ICD-10-CM |
| S95.119A | Laceration of plantar artery of unspecified foot, initial encounter                | Diagnosis     | ICD-10-CM |
| S95.119D | Laceration of plantar artery of unspecified foot, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S95.119S | Laceration of plantar artery of unspecified foot, sequela                          | Diagnosis     | ICD-10-CM |
| S95.19   | Other specified injury of plantar artery of foot                                   | Diagnosis     | ICD-10-CM |
| S95.191  | Other specified injury of plantar artery of right foot                             | Diagnosis     | ICD-10-CM |
| S95.191A | Other specified injury of plantar artery of right foot, initial encounter          | Diagnosis     | ICD-10-CM |
| S95.191D | Other specified injury of plantar artery of right foot, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S95.191S | Other specified injury of plantar artery of right foot, sequela                    | Diagnosis     | ICD-10-CM |
| S95.192  | Other specified injury of plantar artery of left foot                              | Diagnosis     | ICD-10-CM |
| S95.192A | Other specified injury of plantar artery of left foot, initial encounter           | Diagnosis     | ICD-10-CM |
| S95.192D | Other specified injury of plantar artery of left foot, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S95.192S | Other specified injury of plantar artery of left foot, sequela                     | Diagnosis     | ICD-10-CM |
| S95.199  | Other specified injury of plantar artery of unspecified foot                       | Diagnosis     | ICD-10-CM |
| S95.199A | Other specified injury of plantar artery of unspecified foot, initial encounter    | Diagnosis     | ICD-10-CM |
| S95.199D | Other specified injury of plantar artery of unspecified foot, subsequent encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S95.199S | Other specified injury of plantar artery of unspecified foot, sequela                              | Diagnosis     | ICD-10-CM |
| S95.2    | Injury of dorsal vein of foot  | Diagnosis     | ICD-10-CM |
| S95.20   | Unspecified injury of dorsal vein of foot  | Diagnosis     | ICD-10-CM |
| S95.201  | Unspecified injury of dorsal vein of right foot  | Diagnosis     | ICD-10-CM |
| S95.201A | Unspecified injury of dorsal vein of right foot, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S95.201D | Unspecified injury of dorsal vein of right foot, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S95.201S | Unspecified injury of dorsal vein of right foot, sequela   | Diagnosis     | ICD-10-CM |
| S95.202  | Unspecified injury of dorsal vein of left foot   | Diagnosis     | ICD-10-CM |
| S95.202A | Unspecified injury of dorsal vein of left foot, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S95.202D | Unspecified injury of dorsal vein of left foot, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S95.202S | Unspecified injury of dorsal vein of left foot, sequela  | Diagnosis     | ICD-10-CM |
| S95.209  | Unspecified injury of dorsal vein of unspecified foot  | Diagnosis     | ICD-10-CM |
| S95.209A | Unspecified injury of dorsal vein of unspecified foot, initial encounter                           | Diagnosis     | ICD-10-CM |
| S95.209D | Unspecified injury of dorsal vein of unspecified foot, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S95.209S | Unspecified injury of dorsal vein of unspecified foot, sequela                                     | Diagnosis     | ICD-10-CM |
| S95.21   | Laceration of dorsal vein of foot  | Diagnosis     | ICD-10-CM |
| S95.211  | Laceration of dorsal vein of right foot  | Diagnosis     | ICD-10-CM |
| S95.211A | Laceration of dorsal vein of right foot, initial encounter   | Diagnosis     | ICD-10-CM |
| S95.211D | Laceration of dorsal vein of right foot, subsequent encounter                                      | Diagnosis     | ICD-10-CM |
| S95.211S | Laceration of dorsal vein of right foot, sequela   | Diagnosis     | ICD-10-CM |
| S95.212  | Laceration of dorsal vein of left foot   | Diagnosis     | ICD-10-CM |
| S95.212A | Laceration of dorsal vein of left foot, initial encounter  | Diagnosis     | ICD-10-CM |
| S95.212D | Laceration of dorsal vein of left foot, subsequent encounter                                       | Diagnosis     | ICD-10-CM |
| S95.212S | Laceration of dorsal vein of left foot, sequela  | Diagnosis     | ICD-10-CM |
| S95.219  | Laceration of dorsal vein of unspecified foot  | Diagnosis     | ICD-10-CM |
| S95.219A | Laceration of dorsal vein of unspecified foot, initial encounter                                   | Diagnosis     | ICD-10-CM |
| S95.219D | Laceration of dorsal vein of unspecified foot, subsequent encounter                                | Diagnosis     | ICD-10-CM |
| S95.219S | Laceration of dorsal vein of unspecified foot, sequela   | Diagnosis     | ICD-10-CM |
| S95.29   | Other specified injury of dorsal vein of foot  | Diagnosis     | ICD-10-CM |
| S95.291  | Other specified injury of dorsal vein of right foot  | Diagnosis     | ICD-10-CM |
| S95.291A | Other specified injury of dorsal vein of right foot, initial encounter                             | Diagnosis     | ICD-10-CM |
| S95.291D | Other specified injury of dorsal vein of right foot, subsequent encounter                          | Diagnosis     | ICD-10-CM |
| S95.291S | Other specified injury of dorsal vein of right foot, sequela                                       | Diagnosis     | ICD-10-CM |
| S95.292  | Other specified injury of dorsal vein of left foot   | Diagnosis     | ICD-10-CM |
| S95.292A | Other specified injury of dorsal vein of left foot, initial encounter                              | Diagnosis     | ICD-10-CM |
| S95.292D | Other specified injury of dorsal vein of left foot, subsequent encounter                           | Diagnosis     | ICD-10-CM |
| S95.292S | Other specified injury of dorsal vein of left foot, sequela  | Diagnosis     | ICD-10-CM |
| S95.299  | Other specified injury of dorsal vein of unspecified foot  | Diagnosis     | ICD-10-CM |
| S95.299A | Other specified injury of dorsal vein of unspecified foot, initial encounter                       | Diagnosis     | ICD-10-CM |
| S95.299D | Other specified injury of dorsal vein of unspecified foot, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S95.299S | Other specified injury of dorsal vein of unspecified foot, sequela                                 | Diagnosis     | ICD-10-CM |
| S95.8    | Injury of other blood vessels at ankle and foot level  | Diagnosis     | ICD-10-CM |
| S95.80   | Unspecified injury of other blood vessels at ankle and foot level                                  | Diagnosis     | ICD-10-CM |
| S95.801  | Unspecified injury of other blood vessels at ankle and foot level, right leg                       | Diagnosis     | ICD-10-CM |
| S95.801A | Unspecified injury of other blood vessels at ankle and foot level, right leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S95.801D | Unspecified injury of other blood vessels at ankle and foot level, right leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S95.801S | Unspecified injury of other blood vessels at ankle and foot level, right leg, sequela              | Diagnosis     | ICD-10-CM |
| S95.802  | Unspecified injury of other blood vessels at ankle and foot level, left leg                        | Diagnosis     | ICD-10-CM |
| S95.802A | Unspecified injury of other blood vessels at ankle and foot level, left leg, initial encounter     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S95.802D | Unspecified injury of other blood vessels at ankle and foot level, left leg, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S95.802S | Unspecified injury of other blood vessels at ankle and foot level, left leg, sequela                         | Diagnosis     | ICD-10-CM |
| S95.809  | Unspecified injury of other blood vessels at ankle and foot level, unspecified leg                           | Diagnosis     | ICD-10-CM |
| S95.809A | Unspecified injury of other blood vessels at ankle and foot level, unspecified leg, initial encounter        | Diagnosis     | ICD-10-CM |
| S95.809D | Unspecified injury of other blood vessels at ankle and foot level, unspecified leg, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S95.809S | Unspecified injury of other blood vessels at ankle and foot level, unspecified leg, sequela                  | Diagnosis     | ICD-10-CM |
| S95.81   | Laceration of other blood vessels at ankle and foot level  | Diagnosis     | ICD-10-CM |
| S95.811  | Laceration of other blood vessels at ankle and foot level, right leg   | Diagnosis     | ICD-10-CM |
| S95.811A | Laceration of other blood vessels at ankle and foot level, right leg, initial encounter                      | Diagnosis     | ICD-10-CM |
| S95.811D | Laceration of other blood vessels at ankle and foot level, right leg, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S95.811S | Laceration of other blood vessels at ankle and foot level, right leg, sequela                                | Diagnosis     | ICD-10-CM |
| S95.812  | Laceration of other blood vessels at ankle and foot level, left leg  | Diagnosis     | ICD-10-CM |
| S95.812A | Laceration of other blood vessels at ankle and foot level, left leg, initial encounter                       | Diagnosis     | ICD-10-CM |
| S95.812D | Laceration of other blood vessels at ankle and foot level, left leg, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S95.812S | Laceration of other blood vessels at ankle and foot level, left leg, sequela                                 | Diagnosis     | ICD-10-CM |
| S95.819  | Laceration of other blood vessels at ankle and foot level, unspecified leg                                   | Diagnosis     | ICD-10-CM |
| S95.819A | Laceration of other blood vessels at ankle and foot level, unspecified leg, initial encounter                | Diagnosis     | ICD-10-CM |
| S95.819D | Laceration of other blood vessels at ankle and foot level, unspecified leg, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S95.819S | Laceration of other blood vessels at ankle and foot level, unspecified leg, sequela                          | Diagnosis     | ICD-10-CM |
| S95.89   | Other specified injury of other blood vessels at ankle and foot level  | Diagnosis     | ICD-10-CM |
| S95.891  | Other specified injury of other blood vessels at ankle and foot level, right leg                             | Diagnosis     | ICD-10-CM |
| S95.891A | Other specified injury of other blood vessels at ankle and foot level, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S95.891D | Other specified injury of other blood vessels at ankle and foot level, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S95.891S | Other specified injury of other blood vessels at ankle and foot level, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S95.892  | Other specified injury of other blood vessels at ankle and foot level, left leg                              | Diagnosis     | ICD-10-CM |
| S95.892A | Other specified injury of other blood vessels at ankle and foot level, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S95.892D | Other specified injury of other blood vessels at ankle and foot level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S95.892S | Other specified injury of other blood vessels at ankle and foot level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S95.899  | Other specified injury of other blood vessels at ankle and foot level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S95.899A | Other specified injury of other blood vessels at ankle and foot level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S95.899D | Other specified injury of other blood vessels at ankle and foot level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S95.899S | Other specified injury of other blood vessels at ankle and foot level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S95.9    | Injury of unspecified blood vessel at ankle and foot level   | Diagnosis     | ICD-10-CM |
| S95.90   | Unspecified injury of unspecified blood vessel at ankle and foot level                                       | Diagnosis     | ICD-10-CM |
| S95.901  | Unspecified injury of unspecified blood vessel at ankle and foot level, right leg                            | Diagnosis     | ICD-10-CM |
| S95.901A | Unspecified injury of unspecified blood vessel at ankle and foot level, right leg, initial encounter         | Diagnosis     | ICD-10-CM |
| S95.901D | Unspecified injury of unspecified blood vessel at ankle and foot level, right leg, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S95.901S | Unspecified injury of unspecified blood vessel at ankle and foot level, right leg, sequela                   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S95.902  | Unspecified injury of unspecified blood vessel at ankle and foot level, left leg                                  | Diagnosis     | ICD-10-CM |
| S95.902A | Unspecified injury of unspecified blood vessel at ankle and foot level, left leg, initial encounter               | Diagnosis     | ICD-10-CM |
| S95.902D | Unspecified injury of unspecified blood vessel at ankle and foot level, left leg, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S95.902S | Unspecified injury of unspecified blood vessel at ankle and foot level, left leg, sequela                         | Diagnosis     | ICD-10-CM |
| S95.909  | Unspecified injury of unspecified blood vessel at ankle and foot level, unspecified leg                           | Diagnosis     | ICD-10-CM |
| S95.909A | Unspecified injury of unspecified blood vessel at ankle and foot level, unspecified leg, initial encounter        | Diagnosis     | ICD-10-CM |
| S95.909D | Unspecified injury of unspecified blood vessel at ankle and foot level, unspecified leg, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S95.909S | Unspecified injury of unspecified blood vessel at ankle and foot level, unspecified leg, sequela                  | Diagnosis     | ICD-10-CM |
| S95.91   | Laceration of unspecified blood vessel at ankle and foot level  | Diagnosis     | ICD-10-CM |
| S95.911  | Laceration of unspecified blood vessel at ankle and foot level, right leg   | Diagnosis     | ICD-10-CM |
| S95.911A | Laceration of unspecified blood vessel at ankle and foot level, right leg, initial encounter                      | Diagnosis     | ICD-10-CM |
| S95.911D | Laceration of unspecified blood vessel at ankle and foot level, right leg, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S95.911S | Laceration of unspecified blood vessel at ankle and foot level, right leg, sequela                                | Diagnosis     | ICD-10-CM |
| S95.912  | Laceration of unspecified blood vessel at ankle and foot level, left leg  | Diagnosis     | ICD-10-CM |
| S95.912A | Laceration of unspecified blood vessel at ankle and foot level, left leg, initial encounter                       | Diagnosis     | ICD-10-CM |
| S95.912D | Laceration of unspecified blood vessel at ankle and foot level, left leg, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S95.912S | Laceration of unspecified blood vessel at ankle and foot level, left leg, sequela                                 | Diagnosis     | ICD-10-CM |
| S95.919  | Laceration of unspecified blood vessel at ankle and foot level, unspecified leg                                   | Diagnosis     | ICD-10-CM |
| S95.919A | Laceration of unspecified blood vessel at ankle and foot level, unspecified leg, initial encounter                | Diagnosis     | ICD-10-CM |
| S95.919D | Laceration of unspecified blood vessel at ankle and foot level, unspecified leg, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S95.919S | Laceration of unspecified blood vessel at ankle and foot level, unspecified leg, sequela                          | Diagnosis     | ICD-10-CM |
| S95.99   | Other specified injury of unspecified blood vessel at ankle and foot level  | Diagnosis     | ICD-10-CM |
| S95.991  | Other specified injury of unspecified blood vessel at ankle and foot level, right leg                             | Diagnosis     | ICD-10-CM |
| S95.991A | Other specified injury of unspecified blood vessel at ankle and foot level, right leg, initial encounter          | Diagnosis     | ICD-10-CM |
| S95.991D | Other specified injury of unspecified blood vessel at ankle and foot level, right leg, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S95.991S | Other specified injury of unspecified blood vessel at ankle and foot level, right leg, sequela                    | Diagnosis     | ICD-10-CM |
| S95.992  | Other specified injury of unspecified blood vessel at ankle and foot level, left leg                              | Diagnosis     | ICD-10-CM |
| S95.992A | Other specified injury of unspecified blood vessel at ankle and foot level, left leg, initial encounter           | Diagnosis     | ICD-10-CM |
| S95.992D | Other specified injury of unspecified blood vessel at ankle and foot level, left leg, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S95.992S | Other specified injury of unspecified blood vessel at ankle and foot level, left leg, sequela                     | Diagnosis     | ICD-10-CM |
| S95.999  | Other specified injury of unspecified blood vessel at ankle and foot level, unspecified leg                       | Diagnosis     | ICD-10-CM |
| S95.999A | Other specified injury of unspecified blood vessel at ankle and foot level, unspecified leg, initial encounter    | Diagnosis     | ICD-10-CM |
| S95.999D | Other specified injury of unspecified blood vessel at ankle and foot level, unspecified leg, subsequent encounter | Diagnosis     | ICD-10-CM |
| S95.999S | Other specified injury of unspecified blood vessel at ankle and foot level, unspecified leg, sequela              | Diagnosis     | ICD-10-CM |
| S96      | Injury of muscle and tendon at ankle and foot level   | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S96.0    | Injury of muscle and tendon of long flexor muscle of toe at ankle and foot level   | Diagnosis     | ICD-10-CM |
| S96.00   | Unspecified injury of muscle and tendon of long flexor muscle of toe at ankle and foot level   | Diagnosis     | ICD-10-CM |
| S96.001  | Unspecified injury of muscle and tendon of long flexor muscle of toe at ankle and foot level, right foot                             | Diagnosis     | ICD-10-CM |
| S96.001A | Unspecified injury of muscle and tendon of long flexor muscle of toe at ankle and foot level, right foot, initial encounter          | Diagnosis     | ICD-10-CM |
| S96.001D | Unspecified injury of muscle and tendon of long flexor muscle of toe at ankle and foot level, right foot, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S96.001S | Unspecified injury of muscle and tendon of long flexor muscle of toe at ankle and foot level, right foot, sequela                    | Diagnosis     | ICD-10-CM |
| S96.002  | Unspecified injury of muscle and tendon of long flexor muscle of toe at ankle and foot level, left foot                              | Diagnosis     | ICD-10-CM |
| S96.002A | Unspecified injury of muscle and tendon of long flexor muscle of toe at ankle and foot level, left foot, initial encounter           | Diagnosis     | ICD-10-CM |
| S96.002D | Unspecified injury of muscle and tendon of long flexor muscle of toe at ankle and foot level, left foot, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S96.002S | Unspecified injury of muscle and tendon of long flexor muscle of toe at ankle and foot level, left foot, sequela                     | Diagnosis     | ICD-10-CM |
| S96.009  | Unspecified injury of muscle and tendon of long flexor muscle of toe at ankle and foot level, unspecified foot                       | Diagnosis     | ICD-10-CM |
| S96.009A | Unspecified injury of muscle and tendon of long flexor muscle of toe at ankle and foot level, unspecified foot, initial encounter    | Diagnosis     | ICD-10-CM |
| S96.009D | Unspecified injury of muscle and tendon of long flexor muscle of toe at ankle and foot level, unspecified foot, subsequent encounter | Diagnosis     | ICD-10-CM |
| S96.009S | Unspecified injury of muscle and tendon of long flexor muscle of toe at ankle and foot level, unspecified foot, sequela              | Diagnosis     | ICD-10-CM |
| S96.01   | Strain of muscle and tendon of long flexor muscle of toe at ankle and foot level   | Diagnosis     | ICD-10-CM |
| S96.011  | Strain of muscle and tendon of long flexor muscle of toe at ankle and foot level, right foot   | Diagnosis     | ICD-10-CM |
| S96.011A | Strain of muscle and tendon of long flexor muscle of toe at ankle and foot level, right foot, initial encounter                      | Diagnosis     | ICD-10-CM |
| S96.011D | Strain of muscle and tendon of long flexor muscle of toe at ankle and foot level, right foot, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S96.011S | Strain of muscle and tendon of long flexor muscle of toe at ankle and foot level, right foot, sequela                                | Diagnosis     | ICD-10-CM |
| S96.012  | Strain of muscle and tendon of long flexor muscle of toe at ankle and foot level, left foot  | Diagnosis     | ICD-10-CM |
| S96.012A | Strain of muscle and tendon of long flexor muscle of toe at ankle and foot level, left foot, initial encounter                       | Diagnosis     | ICD-10-CM |
| S96.012D | Strain of muscle and tendon of long flexor muscle of toe at ankle and foot level, left foot, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S96.012S | Strain of muscle and tendon of long flexor muscle of toe at ankle and foot level, left foot, sequela                                 | Diagnosis     | ICD-10-CM |
| S96.019  | Strain of muscle and tendon of long flexor muscle of toe at ankle and foot level, unspecified foot                                   | Diagnosis     | ICD-10-CM |
| S96.019A | Strain of muscle and tendon of long flexor muscle of toe at ankle and foot level, unspecified foot, initial encounter                | Diagnosis     | ICD-10-CM |
| S96.019D | Strain of muscle and tendon of long flexor muscle of toe at ankle and foot level, unspecified foot, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S96.019S | Strain of muscle and tendon of long flexor muscle of toe at ankle and foot level, unspecified foot, sequela                          | Diagnosis     | ICD-10-CM |
| S96.02   | Laceration of muscle and tendon of long flexor muscle of toe at ankle and foot level   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S96.021  | Laceration of muscle and tendon of long flexor muscle of toe at ankle and foot level, right foot                               | Diagnosis     | ICD-10-CM |
| S96.021A | Laceration of muscle and tendon of long flexor muscle of toe at ankle and foot level, right foot, initial encounter            | Diagnosis     | ICD-10-CM |
| S96.021D | Laceration of muscle and tendon of long flexor muscle of toe at ankle and foot level, right foot, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S96.021S | Laceration of muscle and tendon of long flexor muscle of toe at ankle and foot level, right foot, sequela                      | Diagnosis     | ICD-10-CM |
| S96.022  | Laceration of muscle and tendon of long flexor muscle of toe at ankle and foot level, left foot                                | Diagnosis     | ICD-10-CM |
| S96.022A | Laceration of muscle and tendon of long flexor muscle of toe at ankle and foot level, left foot, initial encounter             | Diagnosis     | ICD-10-CM |
| S96.022D | Laceration of muscle and tendon of long flexor muscle of toe at ankle and foot level, left foot, subsequent encounter          | Diagnosis     | ICD-10-CM |
| S96.022S | Laceration of muscle and tendon of long flexor muscle of toe at ankle and foot level, left foot, sequela                       | Diagnosis     | ICD-10-CM |
| S96.029  | Laceration of muscle and tendon of long flexor muscle of toe at ankle and foot level, unspecified foot                         | Diagnosis     | ICD-10-CM |
| S96.029A | Laceration of muscle and tendon of long flexor muscle of toe at ankle and foot level, unspecified foot, initial encounter      | Diagnosis     | ICD-10-CM |
| S96.029D | Laceration of muscle and tendon of long flexor muscle of toe at ankle and foot level, unspecified foot, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S96.029S | Laceration of muscle and tendon of long flexor muscle of toe at ankle and foot level, unspecified foot, sequela                | Diagnosis     | ICD-10-CM |
| S96.09   | Other injury of muscle and tendon of long flexor muscle of toe at ankle and foot level   | Diagnosis     | ICD-10-CM |
| S96.091  | Other injury of muscle and tendon of long flexor muscle of toe at ankle and foot level, right foot                             | Diagnosis     | ICD-10-CM |
| S96.091A | Other injury of muscle and tendon of long flexor muscle of toe at ankle and foot level, right foot, initial encounter          | Diagnosis     | ICD-10-CM |
| S96.091D | Other injury of muscle and tendon of long flexor muscle of toe at ankle and foot level, right foot, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S96.091S | Other injury of muscle and tendon of long flexor muscle of toe at ankle and foot level, right foot, sequela                    | Diagnosis     | ICD-10-CM |
| S96.092  | Other injury of muscle and tendon of long flexor muscle of toe at ankle and foot level, left foot                              | Diagnosis     | ICD-10-CM |
| S96.092A | Other injury of muscle and tendon of long flexor muscle of toe at ankle and foot level, left foot, initial encounter           | Diagnosis     | ICD-10-CM |
| S96.092D | Other injury of muscle and tendon of long flexor muscle of toe at ankle and foot level, left foot, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S96.092S | Other injury of muscle and tendon of long flexor muscle of toe at ankle and foot level, left foot, sequela                     | Diagnosis     | ICD-10-CM |
| S96.099  | Other injury of muscle and tendon of long flexor muscle of toe at ankle and foot level, unspecified foot                       | Diagnosis     | ICD-10-CM |
| S96.099A | Other injury of muscle and tendon of long flexor muscle of toe at ankle and foot level, unspecified foot, initial encounter    | Diagnosis     | ICD-10-CM |
| S96.099D | Other injury of muscle and tendon of long flexor muscle of toe at ankle and foot level, unspecified foot, subsequent encounter | Diagnosis     | ICD-10-CM |
| S96.099S | Other injury of muscle and tendon of long flexor muscle of toe at ankle and foot level, unspecified foot, sequela              | Diagnosis     | ICD-10-CM |
| S96.1    | Injury of muscle and tendon of long extensor muscle of toe at ankle and foot level   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S96.10   | Unspecified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level   | Diagnosis     | ICD-10-CM |
| S96.101  | Unspecified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level, right foot                             | Diagnosis     | ICD-10-CM |
| S96.101A | Unspecified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level, right foot, initial encounter          | Diagnosis     | ICD-10-CM |
| S96.101D | Unspecified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level, right foot, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S96.101S | Unspecified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level, right foot, sequela                    | Diagnosis     | ICD-10-CM |
| S96.102  | Unspecified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level, left foot                              | Diagnosis     | ICD-10-CM |
| S96.102A | Unspecified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level, left foot, initial encounter           | Diagnosis     | ICD-10-CM |
| S96.102D | Unspecified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level, left foot, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S96.102S | Unspecified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level, left foot, sequela                     | Diagnosis     | ICD-10-CM |
| S96.109  | Unspecified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level, unspecified foot                       | Diagnosis     | ICD-10-CM |
| S96.109A | Unspecified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level, unspecified foot, initial encounter    | Diagnosis     | ICD-10-CM |
| S96.109D | Unspecified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level, unspecified foot, subsequent encounter | Diagnosis     | ICD-10-CM |
| S96.109S | Unspecified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level, unspecified foot, sequela              | Diagnosis     | ICD-10-CM |
| S96.11   | Strain of muscle and tendon of long extensor muscle of toe at ankle and foot level   | Diagnosis     | ICD-10-CM |
| S96.111  | Strain of muscle and tendon of long extensor muscle of toe at ankle and foot level, right foot   | Diagnosis     | ICD-10-CM |
| S96.111A | Strain of muscle and tendon of long extensor muscle of toe at ankle and foot level, right foot, initial encounter                      | Diagnosis     | ICD-10-CM |
| S96.111D | Strain of muscle and tendon of long extensor muscle of toe at ankle and foot level, right foot, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S96.111S | Strain of muscle and tendon of long extensor muscle of toe at ankle and foot level, right foot, sequela                                | Diagnosis     | ICD-10-CM |
| S96.112  | Strain of muscle and tendon of long extensor muscle of toe at ankle and foot level, left foot  | Diagnosis     | ICD-10-CM |
| S96.112A | Strain of muscle and tendon of long extensor muscle of toe at ankle and foot level, left foot, initial encounter                       | Diagnosis     | ICD-10-CM |
| S96.112D | Strain of muscle and tendon of long extensor muscle of toe at ankle and foot level, left foot, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S96.112S | Strain of muscle and tendon of long extensor muscle of toe at ankle and foot level, left foot, sequela                                 | Diagnosis     | ICD-10-CM |
| S96.119  | Strain of muscle and tendon of long extensor muscle of toe at ankle and foot level, unspecified foot                                   | Diagnosis     | ICD-10-CM |
| S96.119A | Strain of muscle and tendon of long extensor muscle of toe at ankle and foot level, unspecified foot, initial encounter                | Diagnosis     | ICD-10-CM |
| S96.119D | Strain of muscle and tendon of long extensor muscle of toe at ankle and foot level, unspecified foot, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S96.119S | Strain of muscle and tendon of long extensor muscle of toe at ankle and foot level, unspecified foot, sequela                          | Diagnosis     | ICD-10-CM |
| S96.12   | Laceration of muscle and tendon of long extensor muscle of toe at ankle and foot level   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S96.121  | Laceration of muscle and tendon of long extensor muscle of toe at ankle and foot level, right foot   | Diagnosis     | ICD-10-CM |
| S96.121A | Laceration of muscle and tendon of long extensor muscle of toe at ankle and foot level, right foot, initial encounter                      | Diagnosis     | ICD-10-CM |
| S96.121D | Laceration of muscle and tendon of long extensor muscle of toe at ankle and foot level, right foot, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S96.121S | Laceration of muscle and tendon of long extensor muscle of toe at ankle and foot level, right foot, sequela                                | Diagnosis     | ICD-10-CM |
| S96.122  | Laceration of muscle and tendon of long extensor muscle of toe at ankle and foot level, left foot  | Diagnosis     | ICD-10-CM |
| S96.122A | Laceration of muscle and tendon of long extensor muscle of toe at ankle and foot level, left foot, initial encounter                       | Diagnosis     | ICD-10-CM |
| S96.122D | Laceration of muscle and tendon of long extensor muscle of toe at ankle and foot level, left foot, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S96.122S | Laceration of muscle and tendon of long extensor muscle of toe at ankle and foot level, left foot, sequela                                 | Diagnosis     | ICD-10-CM |
| S96.129  | Laceration of muscle and tendon of long extensor muscle of toe at ankle and foot level, unspecified foot                                   | Diagnosis     | ICD-10-CM |
| S96.129A | Laceration of muscle and tendon of long extensor muscle of toe at ankle and foot level, unspecified foot, initial encounter                | Diagnosis     | ICD-10-CM |
| S96.129D | Laceration of muscle and tendon of long extensor muscle of toe at ankle and foot level, unspecified foot, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S96.129S | Laceration of muscle and tendon of long extensor muscle of toe at ankle and foot level, unspecified foot, sequela                          | Diagnosis     | ICD-10-CM |
| S96.19   | Other specified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level   | Diagnosis     | ICD-10-CM |
| S96.191  | Other specified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level, right foot                             | Diagnosis     | ICD-10-CM |
| S96.191A | Other specified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level, right foot, initial encounter          | Diagnosis     | ICD-10-CM |
| S96.191D | Other specified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level, right foot, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S96.191S | Other specified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level, right foot, sequela                    | Diagnosis     | ICD-10-CM |
| S96.192  | Other specified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level, left foot                              | Diagnosis     | ICD-10-CM |
| S96.192A | Other specified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level, left foot, initial encounter           | Diagnosis     | ICD-10-CM |
| S96.192D | Other specified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level, left foot, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S96.192S | Other specified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level, left foot, sequela                     | Diagnosis     | ICD-10-CM |
| S96.199  | Other specified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level, unspecified foot                       | Diagnosis     | ICD-10-CM |
| S96.199A | Other specified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level, unspecified foot, initial encounter    | Diagnosis     | ICD-10-CM |
| S96.199D | Other specified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level, unspecified foot, subsequent encounter | Diagnosis     | ICD-10-CM |
| S96.199S | Other specified injury of muscle and tendon of long extensor muscle of toe at ankle and foot level, unspecified foot, sequela              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S96.2    | Injury of intrinsic muscle and tendon at ankle and foot level   | Diagnosis     | ICD-10-CM |
| S96.20   | Unspecified injury of intrinsic muscle and tendon at ankle and foot level   | Diagnosis     | ICD-10-CM |
| S96.201  | Unspecified injury of intrinsic muscle and tendon at ankle and foot level, right foot                             | Diagnosis     | ICD-10-CM |
| S96.201A | Unspecified injury of intrinsic muscle and tendon at ankle and foot level, right foot, initial encounter          | Diagnosis     | ICD-10-CM |
| S96.201D | Unspecified injury of intrinsic muscle and tendon at ankle and foot level, right foot, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S96.201S | Unspecified injury of intrinsic muscle and tendon at ankle and foot level, right foot, sequela                    | Diagnosis     | ICD-10-CM |
| S96.202  | Unspecified injury of intrinsic muscle and tendon at ankle and foot level, left foot                              | Diagnosis     | ICD-10-CM |
| S96.202A | Unspecified injury of intrinsic muscle and tendon at ankle and foot level, left foot, initial encounter           | Diagnosis     | ICD-10-CM |
| S96.202D | Unspecified injury of intrinsic muscle and tendon at ankle and foot level, left foot, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S96.202S | Unspecified injury of intrinsic muscle and tendon at ankle and foot level, left foot, sequela                     | Diagnosis     | ICD-10-CM |
| S96.209  | Unspecified injury of intrinsic muscle and tendon at ankle and foot level, unspecified foot                       | Diagnosis     | ICD-10-CM |
| S96.209A | Unspecified injury of intrinsic muscle and tendon at ankle and foot level, unspecified foot, initial encounter    | Diagnosis     | ICD-10-CM |
| S96.209D | Unspecified injury of intrinsic muscle and tendon at ankle and foot level, unspecified foot, subsequent encounter | Diagnosis     | ICD-10-CM |
| S96.209S | Unspecified injury of intrinsic muscle and tendon at ankle and foot level, unspecified foot, sequela              | Diagnosis     | ICD-10-CM |
| S96.21   | Strain of intrinsic muscle and tendon at ankle and foot level   | Diagnosis     | ICD-10-CM |
| S96.211  | Strain of intrinsic muscle and tendon at ankle and foot level, right foot   | Diagnosis     | ICD-10-CM |
| S96.211A | Strain of intrinsic muscle and tendon at ankle and foot level, right foot, initial encounter                      | Diagnosis     | ICD-10-CM |
| S96.211D | Strain of intrinsic muscle and tendon at ankle and foot level, right foot, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S96.211S | Strain of intrinsic muscle and tendon at ankle and foot level, right foot, sequela                                | Diagnosis     | ICD-10-CM |
| S96.212  | Strain of intrinsic muscle and tendon at ankle and foot level, left foot  | Diagnosis     | ICD-10-CM |
| S96.212A | Strain of intrinsic muscle and tendon at ankle and foot level, left foot, initial encounter                       | Diagnosis     | ICD-10-CM |
| S96.212D | Strain of intrinsic muscle and tendon at ankle and foot level, left foot, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S96.212S | Strain of intrinsic muscle and tendon at ankle and foot level, left foot, sequela                                 | Diagnosis     | ICD-10-CM |
| S96.219  | Strain of intrinsic muscle and tendon at ankle and foot level, unspecified foot                                   | Diagnosis     | ICD-10-CM |
| S96.219A | Strain of intrinsic muscle and tendon at ankle and foot level, unspecified foot, initial encounter                | Diagnosis     | ICD-10-CM |
| S96.219D | Strain of intrinsic muscle and tendon at ankle and foot level, unspecified foot, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S96.219S | Strain of intrinsic muscle and tendon at ankle and foot level, unspecified foot, sequela                          | Diagnosis     | ICD-10-CM |
| S96.22   | Laceration of intrinsic muscle and tendon at ankle and foot level   | Diagnosis     | ICD-10-CM |
| S96.221  | Laceration of intrinsic muscle and tendon at ankle and foot level, right foot                                     | Diagnosis     | ICD-10-CM |
| S96.221A | Laceration of intrinsic muscle and tendon at ankle and foot level, right foot, initial encounter                  | Diagnosis     | ICD-10-CM |
| S96.221D | Laceration of intrinsic muscle and tendon at ankle and foot level, right foot, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S96.221S | Laceration of intrinsic muscle and tendon at ankle and foot level, right foot, sequela                            | Diagnosis     | ICD-10-CM |
| S96.222  | Laceration of intrinsic muscle and tendon at ankle and foot level, left foot                                      | Diagnosis     | ICD-10-CM |
| S96.222A | Laceration of intrinsic muscle and tendon at ankle and foot level, left foot, initial encounter                   | Diagnosis     | ICD-10-CM |
| S96.222D | Laceration of intrinsic muscle and tendon at ankle and foot level, left foot, subsequent encounter                | Diagnosis     | ICD-10-CM |
| S96.222S | Laceration of intrinsic muscle and tendon at ankle and foot level, left foot, sequela                             | Diagnosis     | ICD-10-CM |
| S96.229  | Laceration of intrinsic muscle and tendon at ankle and foot level, unspecified foot                               | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S96.229A | Laceration of intrinsic muscle and tendon at ankle and foot level, unspecified foot, initial encounter                    | Diagnosis     | ICD-10-CM |
| S96.229D | Laceration of intrinsic muscle and tendon at ankle and foot level, unspecified foot, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S96.229S | Laceration of intrinsic muscle and tendon at ankle and foot level, unspecified foot, sequela                              | Diagnosis     | ICD-10-CM |
| S96.29   | Other specified injury of intrinsic muscle and tendon at ankle and foot level   | Diagnosis     | ICD-10-CM |
| S96.291  | Other specified injury of intrinsic muscle and tendon at ankle and foot level, right foot                                 | Diagnosis     | ICD-10-CM |
| S96.291A | Other specified injury of intrinsic muscle and tendon at ankle and foot level, right foot, initial encounter              | Diagnosis     | ICD-10-CM |
| S96.291D | Other specified injury of intrinsic muscle and tendon at ankle and foot level, right foot, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S96.291S | Other specified injury of intrinsic muscle and tendon at ankle and foot level, right foot, sequela                        | Diagnosis     | ICD-10-CM |
| S96.292  | Other specified injury of intrinsic muscle and tendon at ankle and foot level, left foot                                  | Diagnosis     | ICD-10-CM |
| S96.292A | Other specified injury of intrinsic muscle and tendon at ankle and foot level, left foot, initial encounter               | Diagnosis     | ICD-10-CM |
| S96.292D | Other specified injury of intrinsic muscle and tendon at ankle and foot level, left foot, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S96.292S | Other specified injury of intrinsic muscle and tendon at ankle and foot level, left foot, sequela                         | Diagnosis     | ICD-10-CM |
| S96.299  | Other specified injury of intrinsic muscle and tendon at ankle and foot level, unspecified foot                           | Diagnosis     | ICD-10-CM |
| S96.299A | Other specified injury of intrinsic muscle and tendon at ankle and foot level, unspecified foot, initial encounter        | Diagnosis     | ICD-10-CM |
| S96.299D | Other specified injury of intrinsic muscle and tendon at ankle and foot level, unspecified foot, subsequent encounter     | Diagnosis     | ICD-10-CM |
| S96.299S | Other specified injury of intrinsic muscle and tendon at ankle and foot level, unspecified foot, sequela                  | Diagnosis     | ICD-10-CM |
| S96.8    | Injury of other specified muscles and tendons at ankle and foot level   | Diagnosis     | ICD-10-CM |
| S96.80   | Unspecified injury of other specified muscles and tendons at ankle and foot level   | Diagnosis     | ICD-10-CM |
| S96.801  | Unspecified injury of other specified muscles and tendons at ankle and foot level, right foot                             | Diagnosis     | ICD-10-CM |
| S96.801A | Unspecified injury of other specified muscles and tendons at ankle and foot level, right foot, initial encounter          | Diagnosis     | ICD-10-CM |
| S96.801D | Unspecified injury of other specified muscles and tendons at ankle and foot level, right foot, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S96.801S | Unspecified injury of other specified muscles and tendons at ankle and foot level, right foot, sequela                    | Diagnosis     | ICD-10-CM |
| S96.802  | Unspecified injury of other specified muscles and tendons at ankle and foot level, left foot                              | Diagnosis     | ICD-10-CM |
| S96.802A | Unspecified injury of other specified muscles and tendons at ankle and foot level, left foot, initial encounter           | Diagnosis     | ICD-10-CM |
| S96.802D | Unspecified injury of other specified muscles and tendons at ankle and foot level, left foot, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S96.802S | Unspecified injury of other specified muscles and tendons at ankle and foot level, left foot, sequela                     | Diagnosis     | ICD-10-CM |
| S96.809  | Unspecified injury of other specified muscles and tendons at ankle and foot level, unspecified foot                       | Diagnosis     | ICD-10-CM |
| S96.809A | Unspecified injury of other specified muscles and tendons at ankle and foot level, unspecified foot, initial encounter    | Diagnosis     | ICD-10-CM |
| S96.809D | Unspecified injury of other specified muscles and tendons at ankle and foot level, unspecified foot, subsequent encounter | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S96.809S | Unspecified injury of other specified muscles and tendons at ankle and foot level, unspecified foot, sequela            | Diagnosis     | ICD-10-CM |
| S96.81   | Strain of other specified muscles and tendons at ankle and foot level   | Diagnosis     | ICD-10-CM |
| S96.811  | Strain of other specified muscles and tendons at ankle and foot level, right foot                                       | Diagnosis     | ICD-10-CM |
| S96.811A | Strain of other specified muscles and tendons at ankle and foot level, right foot, initial encounter                    | Diagnosis     | ICD-10-CM |
| S96.811D | Strain of other specified muscles and tendons at ankle and foot level, right foot, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S96.811S | Strain of other specified muscles and tendons at ankle and foot level, right foot, sequela                              | Diagnosis     | ICD-10-CM |
| S96.812  | Strain of other specified muscles and tendons at ankle and foot level, left foot  | Diagnosis     | ICD-10-CM |
| S96.812A | Strain of other specified muscles and tendons at ankle and foot level, left foot, initial encounter                     | Diagnosis     | ICD-10-CM |
| S96.812D | Strain of other specified muscles and tendons at ankle and foot level, left foot, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S96.812S | Strain of other specified muscles and tendons at ankle and foot level, left foot, sequela                               | Diagnosis     | ICD-10-CM |
| S96.819  | Strain of other specified muscles and tendons at ankle and foot level, unspecified foot                                 | Diagnosis     | ICD-10-CM |
| S96.819A | Strain of other specified muscles and tendons at ankle and foot level, unspecified foot, initial encounter              | Diagnosis     | ICD-10-CM |
| S96.819D | Strain of other specified muscles and tendons at ankle and foot level, unspecified foot, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S96.819S | Strain of other specified muscles and tendons at ankle and foot level, unspecified foot, sequela                        | Diagnosis     | ICD-10-CM |
| S96.82   | Laceration of other specified muscles and tendons at ankle and foot level   | Diagnosis     | ICD-10-CM |
| S96.821  | Laceration of other specified muscles and tendons at ankle and foot level, right foot                                   | Diagnosis     | ICD-10-CM |
| S96.821A | Laceration of other specified muscles and tendons at ankle and foot level, right foot, initial encounter                | Diagnosis     | ICD-10-CM |
| S96.821D | Laceration of other specified muscles and tendons at ankle and foot level, right foot, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S96.821S | Laceration of other specified muscles and tendons at ankle and foot level, right foot, sequela                          | Diagnosis     | ICD-10-CM |
| S96.822  | Laceration of other specified muscles and tendons at ankle and foot level, left foot                                    | Diagnosis     | ICD-10-CM |
| S96.822A | Laceration of other specified muscles and tendons at ankle and foot level, left foot, initial encounter                 | Diagnosis     | ICD-10-CM |
| S96.822D | Laceration of other specified muscles and tendons at ankle and foot level, left foot, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S96.822S | Laceration of other specified muscles and tendons at ankle and foot level, left foot, sequela                           | Diagnosis     | ICD-10-CM |
| S96.829  | Laceration of other specified muscles and tendons at ankle and foot level, unspecified foot                             | Diagnosis     | ICD-10-CM |
| S96.829A | Laceration of other specified muscles and tendons at ankle and foot level, unspecified foot, initial encounter          | Diagnosis     | ICD-10-CM |
| S96.829D | Laceration of other specified muscles and tendons at ankle and foot level, unspecified foot, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S96.829S | Laceration of other specified muscles and tendons at ankle and foot level, unspecified foot, sequela                    | Diagnosis     | ICD-10-CM |
| S96.89   | Other specified injury of other specified muscles and tendons at ankle and foot level                                   | Diagnosis     | ICD-10-CM |
| S96.891  | Other specified injury of other specified muscles and tendons at ankle and foot level, right foot                       | Diagnosis     | ICD-10-CM |
| S96.891A | Other specified injury of other specified muscles and tendons at ankle and foot level, right foot, initial encounter    | Diagnosis     | ICD-10-CM |
| S96.891D | Other specified injury of other specified muscles and tendons at ankle and foot level, right foot, subsequent encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S96.891S | Other specified injury of other specified muscles and tendons at ankle and foot level, right foot, sequela                    | Diagnosis     | ICD-10-CM |
| S96.892  | Other specified injury of other specified muscles and tendons at ankle and foot level, left foot                              | Diagnosis     | ICD-10-CM |
| S96.892A | Other specified injury of other specified muscles and tendons at ankle and foot level, left foot, initial encounter           | Diagnosis     | ICD-10-CM |
| S96.892D | Other specified injury of other specified muscles and tendons at ankle and foot level, left foot, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S96.892S | Other specified injury of other specified muscles and tendons at ankle and foot level, left foot, sequela                     | Diagnosis     | ICD-10-CM |
| S96.899  | Other specified injury of other specified muscles and tendons at ankle and foot level, unspecified foot                       | Diagnosis     | ICD-10-CM |
| S96.899A | Other specified injury of other specified muscles and tendons at ankle and foot level, unspecified foot, initial encounter    | Diagnosis     | ICD-10-CM |
| S96.899D | Other specified injury of other specified muscles and tendons at ankle and foot level, unspecified foot, subsequent encounter | Diagnosis     | ICD-10-CM |
| S96.899S | Other specified injury of other specified muscles and tendons at ankle and foot level, unspecified foot, sequela              | Diagnosis     | ICD-10-CM |
| S96.9    | Injury of unspecified muscle and tendon at ankle and foot level   | Diagnosis     | ICD-10-CM |
| S96.90   | Unspecified injury of unspecified muscle and tendon at ankle and foot level   | Diagnosis     | ICD-10-CM |
| S96.901  | Unspecified injury of unspecified muscle and tendon at ankle and foot level, right foot                                       | Diagnosis     | ICD-10-CM |
| S96.901A | Unspecified injury of unspecified muscle and tendon at ankle and foot level, right foot, initial encounter                    | Diagnosis     | ICD-10-CM |
| S96.901D | Unspecified injury of unspecified muscle and tendon at ankle and foot level, right foot, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S96.901S | Unspecified injury of unspecified muscle and tendon at ankle and foot level, right foot, sequela                              | Diagnosis     | ICD-10-CM |
| S96.902  | Unspecified injury of unspecified muscle and tendon at ankle and foot level, left foot  | Diagnosis     | ICD-10-CM |
| S96.902A | Unspecified injury of unspecified muscle and tendon at ankle and foot level, left foot, initial encounter                     | Diagnosis     | ICD-10-CM |
| S96.902D | Unspecified injury of unspecified muscle and tendon at ankle and foot level, left foot, subsequent encounter                  | Diagnosis     | ICD-10-CM |
| S96.902S | Unspecified injury of unspecified muscle and tendon at ankle and foot level, left foot, sequela                               | Diagnosis     | ICD-10-CM |
| S96.909  | Unspecified injury of unspecified muscle and tendon at ankle and foot level, unspecified foot                                 | Diagnosis     | ICD-10-CM |
| S96.909A | Unspecified injury of unspecified muscle and tendon at ankle and foot level, unspecified foot, initial encounter              | Diagnosis     | ICD-10-CM |
| S96.909D | Unspecified injury of unspecified muscle and tendon at ankle and foot level, unspecified foot, subsequent encounter           | Diagnosis     | ICD-10-CM |
| S96.909S | Unspecified injury of unspecified muscle and tendon at ankle and foot level, unspecified foot, sequela                        | Diagnosis     | ICD-10-CM |
| S96.91   | Strain of unspecified muscle and tendon at ankle and foot level   | Diagnosis     | ICD-10-CM |
| S96.911  | Strain of unspecified muscle and tendon at ankle and foot level, right foot   | Diagnosis     | ICD-10-CM |
| S96.911A | Strain of unspecified muscle and tendon at ankle and foot level, right foot, initial encounter                                | Diagnosis     | ICD-10-CM |
| S96.911D | Strain of unspecified muscle and tendon at ankle and foot level, right foot, subsequent encounter                             | Diagnosis     | ICD-10-CM |
| S96.911S | Strain of unspecified muscle and tendon at ankle and foot level, right foot, sequela  | Diagnosis     | ICD-10-CM |
| S96.912  | Strain of unspecified muscle and tendon at ankle and foot level, left foot  | Diagnosis     | ICD-10-CM |
| S96.912A | Strain of unspecified muscle and tendon at ankle and foot level, left foot, initial encounter                                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S96.912D | Strain of unspecified muscle and tendon at ankle and foot level, left foot, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S96.912S | Strain of unspecified muscle and tendon at ankle and foot level, left foot, sequela                                     | Diagnosis     | ICD-10-CM |
| S96.919  | Strain of unspecified muscle and tendon at ankle and foot level, unspecified foot                                       | Diagnosis     | ICD-10-CM |
| S96.919A | Strain of unspecified muscle and tendon at ankle and foot level, unspecified foot, initial encounter                    | Diagnosis     | ICD-10-CM |
| S96.919D | Strain of unspecified muscle and tendon at ankle and foot level, unspecified foot, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S96.919S | Strain of unspecified muscle and tendon at ankle and foot level, unspecified foot, sequela                              | Diagnosis     | ICD-10-CM |
| S96.92   | Laceration of unspecified muscle and tendon at ankle and foot level   | Diagnosis     | ICD-10-CM |
| S96.921  | Laceration of unspecified muscle and tendon at ankle and foot level, right foot   | Diagnosis     | ICD-10-CM |
| S96.921A | Laceration of unspecified muscle and tendon at ankle and foot level, right foot, initial encounter                      | Diagnosis     | ICD-10-CM |
| S96.921D | Laceration of unspecified muscle and tendon at ankle and foot level, right foot, subsequent encounter                   | Diagnosis     | ICD-10-CM |
| S96.921S | Laceration of unspecified muscle and tendon at ankle and foot level, right foot, sequela                                | Diagnosis     | ICD-10-CM |
| S96.922  | Laceration of unspecified muscle and tendon at ankle and foot level, left foot  | Diagnosis     | ICD-10-CM |
| S96.922A | Laceration of unspecified muscle and tendon at ankle and foot level, left foot, initial encounter                       | Diagnosis     | ICD-10-CM |
| S96.922D | Laceration of unspecified muscle and tendon at ankle and foot level, left foot, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S96.922S | Laceration of unspecified muscle and tendon at ankle and foot level, left foot, sequela                                 | Diagnosis     | ICD-10-CM |
| S96.929  | Laceration of unspecified muscle and tendon at ankle and foot level, unspecified foot                                   | Diagnosis     | ICD-10-CM |
| S96.929A | Laceration of unspecified muscle and tendon at ankle and foot level, unspecified foot, initial encounter                | Diagnosis     | ICD-10-CM |
| S96.929D | Laceration of unspecified muscle and tendon at ankle and foot level, unspecified foot, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S96.929S | Laceration of unspecified muscle and tendon at ankle and foot level, unspecified foot, sequela                          | Diagnosis     | ICD-10-CM |
| S96.99   | Other specified injury of unspecified muscle and tendon at ankle and foot level   | Diagnosis     | ICD-10-CM |
| S96.991  | Other specified injury of unspecified muscle and tendon at ankle and foot level, right foot                             | Diagnosis     | ICD-10-CM |
| S96.991A | Other specified injury of unspecified muscle and tendon at ankle and foot level, right foot, initial encounter          | Diagnosis     | ICD-10-CM |
| S96.991D | Other specified injury of unspecified muscle and tendon at ankle and foot level, right foot, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S96.991S | Other specified injury of unspecified muscle and tendon at ankle and foot level, right foot, sequela                    | Diagnosis     | ICD-10-CM |
| S96.992  | Other specified injury of unspecified muscle and tendon at ankle and foot level, left foot                              | Diagnosis     | ICD-10-CM |
| S96.992A | Other specified injury of unspecified muscle and tendon at ankle and foot level, left foot, initial encounter           | Diagnosis     | ICD-10-CM |
| S96.992D | Other specified injury of unspecified muscle and tendon at ankle and foot level, left foot, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S96.992S | Other specified injury of unspecified muscle and tendon at ankle and foot level, left foot, sequela                     | Diagnosis     | ICD-10-CM |
| S96.999  | Other specified injury of unspecified muscle and tendon at ankle and foot level, unspecified foot                       | Diagnosis     | ICD-10-CM |
| S96.999A | Other specified injury of unspecified muscle and tendon at ankle and foot level, unspecified foot, initial encounter    | Diagnosis     | ICD-10-CM |
| S96.999D | Other specified injury of unspecified muscle and tendon at ankle and foot level, unspecified foot, subsequent encounter | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S96.999S | Other specified injury of unspecified muscle and tendon at ankle and foot level, unspecified foot, sequela | Diagnosis     | ICD-10-CM |
| S97      | Crushing injury of ankle and foot  | Diagnosis     | ICD-10-CM |
| S97.0    | Crushing injury of ankle   | Diagnosis     | ICD-10-CM |
| S97.00   | Crushing injury of unspecified ankle   | Diagnosis     | ICD-10-CM |
| S97.00XA | Crushing injury of unspecified ankle, initial encounter  | Diagnosis     | ICD-10-CM |
| S97.00XD | Crushing injury of unspecified ankle, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S97.00XS | Crushing injury of unspecified ankle, sequela  | Diagnosis     | ICD-10-CM |
| S97.01   | Crushing injury of right ankle   | Diagnosis     | ICD-10-CM |
| S97.01XA | Crushing injury of right ankle, initial encounter  | Diagnosis     | ICD-10-CM |
| S97.01XD | Crushing injury of right ankle, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S97.01XS | Crushing injury of right ankle, sequela  | Diagnosis     | ICD-10-CM |
| S97.02   | Crushing injury of left ankle  | Diagnosis     | ICD-10-CM |
| S97.02XA | Crushing injury of left ankle, initial encounter   | Diagnosis     | ICD-10-CM |
| S97.02XD | Crushing injury of left ankle, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S97.02XS | Crushing injury of left ankle, sequela   | Diagnosis     | ICD-10-CM |
| S97.1    | Crushing injury of toe   | Diagnosis     | ICD-10-CM |
| S97.10   | Crushing injury of unspecified toe(s)  | Diagnosis     | ICD-10-CM |
| S97.101  | Crushing injury of unspecified right toe(s)  | Diagnosis     | ICD-10-CM |
| S97.101A | Crushing injury of unspecified right toe(s), initial encounter   | Diagnosis     | ICD-10-CM |
| S97.101D | Crushing injury of unspecified right toe(s), subsequent encounter  | Diagnosis     | ICD-10-CM |
| S97.101S | Crushing injury of unspecified right toe(s), sequela   | Diagnosis     | ICD-10-CM |
| S97.102  | Crushing injury of unspecified left toe(s)   | Diagnosis     | ICD-10-CM |
| S97.102A | Crushing injury of unspecified left toe(s), initial encounter  | Diagnosis     | ICD-10-CM |
| S97.102D | Crushing injury of unspecified left toe(s), subsequent encounter   | Diagnosis     | ICD-10-CM |
| S97.102S | Crushing injury of unspecified left toe(s), sequela  | Diagnosis     | ICD-10-CM |
| S97.109  | Crushing injury of unspecified toe(s)  | Diagnosis     | ICD-10-CM |
| S97.109A | Crushing injury of unspecified toe(s), initial encounter   | Diagnosis     | ICD-10-CM |
| S97.109D | Crushing injury of unspecified toe(s), subsequent encounter  | Diagnosis     | ICD-10-CM |
| S97.109S | Crushing injury of unspecified toe(s), sequela   | Diagnosis     | ICD-10-CM |
| S97.11   | Crushing injury of great toe   | Diagnosis     | ICD-10-CM |
| S97.111  | Crushing injury of right great toe   | Diagnosis     | ICD-10-CM |
| S97.111A | Crushing injury of right great toe, initial encounter  | Diagnosis     | ICD-10-CM |
| S97.111D | Crushing injury of right great toe, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S97.111S | Crushing injury of right great toe, sequela  | Diagnosis     | ICD-10-CM |
| S97.112  | Crushing injury of left great toe  | Diagnosis     | ICD-10-CM |
| S97.112A | Crushing injury of left great toe, initial encounter   | Diagnosis     | ICD-10-CM |
| S97.112D | Crushing injury of left great toe, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S97.112S | Crushing injury of left great toe, sequela   | Diagnosis     | ICD-10-CM |
| S97.119  | Crushing injury of unspecified great toe   | Diagnosis     | ICD-10-CM |
| S97.119A | Crushing injury of unspecified great toe, initial encounter  | Diagnosis     | ICD-10-CM |
| S97.119D | Crushing injury of unspecified great toe, subsequent encounter   | Diagnosis     | ICD-10-CM |
| S97.119S | Crushing injury of unspecified great toe, sequela  | Diagnosis     | ICD-10-CM |
| S97.12   | Crushing injury of lesser toe(s)   | Diagnosis     | ICD-10-CM |
| S97.121  | Crushing injury of right lesser toe(s)   | Diagnosis     | ICD-10-CM |
| S97.121A | Crushing injury of right lesser toe(s), initial encounter  | Diagnosis     | ICD-10-CM |
| S97.121D | Crushing injury of right lesser toe(s), subsequent encounter   | Diagnosis     | ICD-10-CM |
| S97.121S | Crushing injury of right lesser toe(s), sequela  | Diagnosis     | ICD-10-CM |
| S97.122  | Crushing injury of left lesser toe(s)  | Diagnosis     | ICD-10-CM |
| S97.122A | Crushing injury of left lesser toe(s), initial encounter   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S97.122D | Crushing injury of left lesser toe(s), subsequent encounter                            | Diagnosis     | ICD-10-CM |
| S97.122S | Crushing injury of left lesser toe(s), sequela   | Diagnosis     | ICD-10-CM |
| S97.129  | Crushing injury of unspecified lesser toe(s)   | Diagnosis     | ICD-10-CM |
| S97.129A | Crushing injury of unspecified lesser toe(s), initial encounter                        | Diagnosis     | ICD-10-CM |
| S97.129D | Crushing injury of unspecified lesser toe(s), subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S97.129S | Crushing injury of unspecified lesser toe(s), sequela                                  | Diagnosis     | ICD-10-CM |
| S97.8    | Crushing injury of foot  | Diagnosis     | ICD-10-CM |
| S97.80   | Crushing injury of unspecified foot  | Diagnosis     | ICD-10-CM |
| S97.80XA | Crushing injury of unspecified foot, initial encounter                                 | Diagnosis     | ICD-10-CM |
| S97.80XD | Crushing injury of unspecified foot, subsequent encounter                              | Diagnosis     | ICD-10-CM |
| S97.80XS | Crushing injury of unspecified foot, sequela   | Diagnosis     | ICD-10-CM |
| S97.81   | Crushing injury of right foot  | Diagnosis     | ICD-10-CM |
| S97.81XA | Crushing injury of right foot, initial encounter                                       | Diagnosis     | ICD-10-CM |
| S97.81XD | Crushing injury of right foot, subsequent encounter                                    | Diagnosis     | ICD-10-CM |
| S97.81XS | Crushing injury of right foot, sequela   | Diagnosis     | ICD-10-CM |
| S97.82   | Crushing injury of left foot   | Diagnosis     | ICD-10-CM |
| S97.82XA | Crushing injury of left foot, initial encounter  | Diagnosis     | ICD-10-CM |
| S97.82XD | Crushing injury of left foot, subsequent encounter                                     | Diagnosis     | ICD-10-CM |
| S97.82XS | Crushing injury of left foot, sequela  | Diagnosis     | ICD-10-CM |
| S98      | Traumatic amputation of ankle and foot   | Diagnosis     | ICD-10-CM |
| S98.0    | Traumatic amputation of foot at ankle level  | Diagnosis     | ICD-10-CM |
| S98.01   | Complete traumatic amputation of foot at ankle level                                   | Diagnosis     | ICD-10-CM |
| S98.011  | Complete traumatic amputation of right foot at ankle level                             | Diagnosis     | ICD-10-CM |
| S98.011A | Complete traumatic amputation of right foot at ankle level, initial encounter          | Diagnosis     | ICD-10-CM |
| S98.011D | Complete traumatic amputation of right foot at ankle level, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S98.011S | Complete traumatic amputation of right foot at ankle level, sequela                    | Diagnosis     | ICD-10-CM |
| S98.012  | Complete traumatic amputation of left foot at ankle level                              | Diagnosis     | ICD-10-CM |
| S98.012A | Complete traumatic amputation of left foot at ankle level, initial encounter           | Diagnosis     | ICD-10-CM |
| S98.012D | Complete traumatic amputation of left foot at ankle level, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S98.012S | Complete traumatic amputation of left foot at ankle level, sequela                     | Diagnosis     | ICD-10-CM |
| S98.019  | Complete traumatic amputation of unspecified foot at ankle level                       | Diagnosis     | ICD-10-CM |
| S98.019A | Complete traumatic amputation of unspecified foot at ankle level, initial encounter    | Diagnosis     | ICD-10-CM |
| S98.019D | Complete traumatic amputation of unspecified foot at ankle level, subsequent encounter | Diagnosis     | ICD-10-CM |
| S98.019S | Complete traumatic amputation of unspecified foot at ankle level, sequela              | Diagnosis     | ICD-10-CM |
| S98.02   | Partial traumatic amputation of foot at ankle level                                    | Diagnosis     | ICD-10-CM |
| S98.021  | Partial traumatic amputation of right foot at ankle level                              | Diagnosis     | ICD-10-CM |
| S98.021A | Partial traumatic amputation of right foot at ankle level, initial encounter           | Diagnosis     | ICD-10-CM |
| S98.021D | Partial traumatic amputation of right foot at ankle level, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S98.021S | Partial traumatic amputation of right foot at ankle level, sequela                     | Diagnosis     | ICD-10-CM |
| S98.022  | Partial traumatic amputation of left foot at ankle level                               | Diagnosis     | ICD-10-CM |
| S98.022A | Partial traumatic amputation of left foot at ankle level, initial encounter            | Diagnosis     | ICD-10-CM |
| S98.022D | Partial traumatic amputation of left foot at ankle level, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S98.022S | Partial traumatic amputation of left foot at ankle level, sequela                      | Diagnosis     | ICD-10-CM |
| S98.029  | Partial traumatic amputation of unspecified foot at ankle level                        | Diagnosis     | ICD-10-CM |
| S98.029A | Partial traumatic amputation of unspecified foot at ankle level, initial encounter     | Diagnosis     | ICD-10-CM |
| S98.029D | Partial traumatic amputation of unspecified foot at ankle level, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S98.029S | Partial traumatic amputation of unspecified foot at ankle level, sequela               | Diagnosis     | ICD-10-CM |
| S98.1    | Traumatic amputation of one toe  | Diagnosis     | ICD-10-CM |
| S98.11   | Complete traumatic amputation of great toe   | Diagnosis     | ICD-10-CM |
| S98.111  | Complete traumatic amputation of right great toe                                       | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S98.111A | Complete traumatic amputation of right great toe, initial encounter               | Diagnosis     | ICD-10-CM |
| S98.111D | Complete traumatic amputation of right great toe, subsequent encounter            | Diagnosis     | ICD-10-CM |
| S98.111S | Complete traumatic amputation of right great toe, sequela                         | Diagnosis     | ICD-10-CM |
| S98.112  | Complete traumatic amputation of left great toe                                   | Diagnosis     | ICD-10-CM |
| S98.112A | Complete traumatic amputation of left great toe, initial encounter                | Diagnosis     | ICD-10-CM |
| S98.112D | Complete traumatic amputation of left great toe, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S98.112S | Complete traumatic amputation of left great toe, sequela                          | Diagnosis     | ICD-10-CM |
| S98.119  | Complete traumatic amputation of unspecified great toe                            | Diagnosis     | ICD-10-CM |
| S98.119A | Complete traumatic amputation of unspecified great toe, initial encounter         | Diagnosis     | ICD-10-CM |
| S98.119D | Complete traumatic amputation of unspecified great toe, subsequent encounter      | Diagnosis     | ICD-10-CM |
| S98.119S | Complete traumatic amputation of unspecified great toe, sequela                   | Diagnosis     | ICD-10-CM |
| S98.12   | Partial traumatic amputation of great toe   | Diagnosis     | ICD-10-CM |
| S98.121  | Partial traumatic amputation of right great toe                                   | Diagnosis     | ICD-10-CM |
| S98.121A | Partial traumatic amputation of right great toe, initial encounter                | Diagnosis     | ICD-10-CM |
| S98.121D | Partial traumatic amputation of right great toe, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S98.121S | Partial traumatic amputation of right great toe, sequela                          | Diagnosis     | ICD-10-CM |
| S98.122  | Partial traumatic amputation of left great toe                                    | Diagnosis     | ICD-10-CM |
| S98.122A | Partial traumatic amputation of left great toe, initial encounter                 | Diagnosis     | ICD-10-CM |
| S98.122D | Partial traumatic amputation of left great toe, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S98.122S | Partial traumatic amputation of left great toe, sequela                           | Diagnosis     | ICD-10-CM |
| S98.129  | Partial traumatic amputation of unspecified great toe                             | Diagnosis     | ICD-10-CM |
| S98.129A | Partial traumatic amputation of unspecified great toe, initial encounter          | Diagnosis     | ICD-10-CM |
| S98.129D | Partial traumatic amputation of unspecified great toe, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S98.129S | Partial traumatic amputation of unspecified great toe, sequela                    | Diagnosis     | ICD-10-CM |
| S98.13   | Complete traumatic amputation of one lesser toe                                   | Diagnosis     | ICD-10-CM |
| S98.131  | Complete traumatic amputation of one right lesser toe                             | Diagnosis     | ICD-10-CM |
| S98.131A | Complete traumatic amputation of one right lesser toe, initial encounter          | Diagnosis     | ICD-10-CM |
| S98.131D | Complete traumatic amputation of one right lesser toe, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S98.131S | Complete traumatic amputation of one right lesser toe, sequela                    | Diagnosis     | ICD-10-CM |
| S98.132  | Complete traumatic amputation of one left lesser toe                              | Diagnosis     | ICD-10-CM |
| S98.132A | Complete traumatic amputation of one left lesser toe, initial encounter           | Diagnosis     | ICD-10-CM |
| S98.132D | Complete traumatic amputation of one left lesser toe, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S98.132S | Complete traumatic amputation of one left lesser toe, sequela                     | Diagnosis     | ICD-10-CM |
| S98.139  | Complete traumatic amputation of one unspecified lesser toe                       | Diagnosis     | ICD-10-CM |
| S98.139A | Complete traumatic amputation of one unspecified lesser toe, initial encounter    | Diagnosis     | ICD-10-CM |
| S98.139D | Complete traumatic amputation of one unspecified lesser toe, subsequent encounter | Diagnosis     | ICD-10-CM |
| S98.139S | Complete traumatic amputation of one unspecified lesser toe, sequela              | Diagnosis     | ICD-10-CM |
| S98.14   | Partial traumatic amputation of one lesser toe                                    | Diagnosis     | ICD-10-CM |
| S98.141  | Partial traumatic amputation of one right lesser toe                              | Diagnosis     | ICD-10-CM |
| S98.141A | Partial traumatic amputation of one right lesser toe, initial encounter           | Diagnosis     | ICD-10-CM |
| S98.141D | Partial traumatic amputation of one right lesser toe, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S98.141S | Partial traumatic amputation of one right lesser toe, sequela                     | Diagnosis     | ICD-10-CM |
| S98.142  | Partial traumatic amputation of one left lesser toe                               | Diagnosis     | ICD-10-CM |
| S98.142A | Partial traumatic amputation of one left lesser toe, initial encounter            | Diagnosis     | ICD-10-CM |
| S98.142D | Partial traumatic amputation of one left lesser toe, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S98.142S | Partial traumatic amputation of one left lesser toe, sequela                      | Diagnosis     | ICD-10-CM |
| S98.149  | Partial traumatic amputation of one unspecified lesser toe                        | Diagnosis     | ICD-10-CM |
| S98.149A | Partial traumatic amputation of one unspecified lesser toe, initial encounter     | Diagnosis     | ICD-10-CM |
| S98.149D | Partial traumatic amputation of one unspecified lesser toe, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S98.149S | Partial traumatic amputation of one unspecified lesser toe, sequela               | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S98.2    | Traumatic amputation of two or more lesser toes  | Diagnosis     | ICD-10-CM |
| S98.21   | Complete traumatic amputation of two or more lesser toes                                   | Diagnosis     | ICD-10-CM |
| S98.211  | Complete traumatic amputation of two or more right lesser toes                             | Diagnosis     | ICD-10-CM |
| S98.211A | Complete traumatic amputation of two or more right lesser toes, initial encounter          | Diagnosis     | ICD-10-CM |
| S98.211D | Complete traumatic amputation of two or more right lesser toes, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S98.211S | Complete traumatic amputation of two or more right lesser toes, sequela                    | Diagnosis     | ICD-10-CM |
| S98.212  | Complete traumatic amputation of two or more left lesser toes                              | Diagnosis     | ICD-10-CM |
| S98.212A | Complete traumatic amputation of two or more left lesser toes, initial encounter           | Diagnosis     | ICD-10-CM |
| S98.212D | Complete traumatic amputation of two or more left lesser toes, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S98.212S | Complete traumatic amputation of two or more left lesser toes, sequela                     | Diagnosis     | ICD-10-CM |
| S98.219  | Complete traumatic amputation of two or more unspecified lesser toes                       | Diagnosis     | ICD-10-CM |
| S98.219A | Complete traumatic amputation of two or more unspecified lesser toes, initial encounter    | Diagnosis     | ICD-10-CM |
| S98.219D | Complete traumatic amputation of two or more unspecified lesser toes, subsequent encounter | Diagnosis     | ICD-10-CM |
| S98.219S | Complete traumatic amputation of two or more unspecified lesser toes, sequela              | Diagnosis     | ICD-10-CM |
| S98.22   | Partial traumatic amputation of two or more lesser toes                                    | Diagnosis     | ICD-10-CM |
| S98.221  | Partial traumatic amputation of two or more right lesser toes                              | Diagnosis     | ICD-10-CM |
| S98.221A | Partial traumatic amputation of two or more right lesser toes, initial encounter           | Diagnosis     | ICD-10-CM |
| S98.221D | Partial traumatic amputation of two or more right lesser toes, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S98.221S | Partial traumatic amputation of two or more right lesser toes, sequela                     | Diagnosis     | ICD-10-CM |
| S98.222  | Partial traumatic amputation of two or more left lesser toes                               | Diagnosis     | ICD-10-CM |
| S98.222A | Partial traumatic amputation of two or more left lesser toes, initial encounter            | Diagnosis     | ICD-10-CM |
| S98.222D | Partial traumatic amputation of two or more left lesser toes, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S98.222S | Partial traumatic amputation of two or more left lesser toes, sequela                      | Diagnosis     | ICD-10-CM |
| S98.229  | Partial traumatic amputation of two or more unspecified lesser toes                        | Diagnosis     | ICD-10-CM |
| S98.229A | Partial traumatic amputation of two or more unspecified lesser toes, initial encounter     | Diagnosis     | ICD-10-CM |
| S98.229D | Partial traumatic amputation of two or more unspecified lesser toes, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S98.229S | Partial traumatic amputation of two or more unspecified lesser toes, sequela               | Diagnosis     | ICD-10-CM |
| S98.3    | Traumatic amputation of midfoot  | Diagnosis     | ICD-10-CM |
| S98.31   | Complete traumatic amputation of midfoot   | Diagnosis     | ICD-10-CM |
| S98.311  | Complete traumatic amputation of right midfoot   | Diagnosis     | ICD-10-CM |
| S98.311A | Complete traumatic amputation of right midfoot, initial encounter                          | Diagnosis     | ICD-10-CM |
| S98.311D | Complete traumatic amputation of right midfoot, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| S98.311S | Complete traumatic amputation of right midfoot, sequela                                    | Diagnosis     | ICD-10-CM |
| S98.312  | Complete traumatic amputation of left midfoot  | Diagnosis     | ICD-10-CM |
| S98.312A | Complete traumatic amputation of left midfoot, initial encounter                           | Diagnosis     | ICD-10-CM |
| S98.312D | Complete traumatic amputation of left midfoot, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S98.312S | Complete traumatic amputation of left midfoot, sequela                                     | Diagnosis     | ICD-10-CM |
| S98.319  | Complete traumatic amputation of unspecified midfoot                                       | Diagnosis     | ICD-10-CM |
| S98.319A | Complete traumatic amputation of unspecified midfoot, initial encounter                    | Diagnosis     | ICD-10-CM |
| S98.319D | Complete traumatic amputation of unspecified midfoot, subsequent encounter                 | Diagnosis     | ICD-10-CM |
| S98.319S | Complete traumatic amputation of unspecified midfoot, sequela                              | Diagnosis     | ICD-10-CM |
| S98.32   | Partial traumatic amputation of midfoot  | Diagnosis     | ICD-10-CM |
| S98.321  | Partial traumatic amputation of right midfoot  | Diagnosis     | ICD-10-CM |
| S98.321A | Partial traumatic amputation of right midfoot, initial encounter                           | Diagnosis     | ICD-10-CM |
| S98.321D | Partial traumatic amputation of right midfoot, subsequent encounter                        | Diagnosis     | ICD-10-CM |
| S98.321S | Partial traumatic amputation of right midfoot, sequela                                     | Diagnosis     | ICD-10-CM |
| S98.322  | Partial traumatic amputation of left midfoot   | Diagnosis     | ICD-10-CM |
| S98.322A | Partial traumatic amputation of left midfoot, initial encounter                            | Diagnosis     | ICD-10-CM |
| S98.322D | Partial traumatic amputation of left midfoot, subsequent encounter                         | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S98.322S | Partial traumatic amputation of left midfoot, sequela   | Diagnosis     | ICD-10-CM |
| S98.329  | Partial traumatic amputation of unspecified midfoot   | Diagnosis     | ICD-10-CM |
| S98.329A | Partial traumatic amputation of unspecified midfoot, initial encounter                                  | Diagnosis     | ICD-10-CM |
| S98.329D | Partial traumatic amputation of unspecified midfoot, subsequent encounter                               | Diagnosis     | ICD-10-CM |
| S98.329S | Partial traumatic amputation of unspecified midfoot, sequela  | Diagnosis     | ICD-10-CM |
| S98.9    | Traumatic amputation of foot, level unspecified   | Diagnosis     | ICD-10-CM |
| S98.91   | Complete traumatic amputation of foot, level unspecified  | Diagnosis     | ICD-10-CM |
| S98.911  | Complete traumatic amputation of right foot, level unspecified  | Diagnosis     | ICD-10-CM |
| S98.911A | Complete traumatic amputation of right foot, level unspecified, initial encounter                       | Diagnosis     | ICD-10-CM |
| S98.911D | Complete traumatic amputation of right foot, level unspecified, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| S98.911S | Complete traumatic amputation of right foot, level unspecified, sequela                                 | Diagnosis     | ICD-10-CM |
| S98.912  | Complete traumatic amputation of left foot, level unspecified   | Diagnosis     | ICD-10-CM |
| S98.912A | Complete traumatic amputation of left foot, level unspecified, initial encounter                        | Diagnosis     | ICD-10-CM |
| S98.912D | Complete traumatic amputation of left foot, level unspecified, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S98.912S | Complete traumatic amputation of left foot, level unspecified, sequela                                  | Diagnosis     | ICD-10-CM |
| S98.919  | Complete traumatic amputation of unspecified foot, level unspecified                                    | Diagnosis     | ICD-10-CM |
| S98.919A | Complete traumatic amputation of unspecified foot, level unspecified, initial encounter                 | Diagnosis     | ICD-10-CM |
| S98.919D | Complete traumatic amputation of unspecified foot, level unspecified, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S98.919S | Complete traumatic amputation of unspecified foot, level unspecified, sequela                           | Diagnosis     | ICD-10-CM |
| S98.92   | Partial traumatic amputation of foot, level unspecified   | Diagnosis     | ICD-10-CM |
| S98.921  | Partial traumatic amputation of right foot, level unspecified   | Diagnosis     | ICD-10-CM |
| S98.921A | Partial traumatic amputation of right foot, level unspecified, initial encounter                        | Diagnosis     | ICD-10-CM |
| S98.921D | Partial traumatic amputation of right foot, level unspecified, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| S98.921S | Partial traumatic amputation of right foot, level unspecified, sequela                                  | Diagnosis     | ICD-10-CM |
| S98.922  | Partial traumatic amputation of left foot, level unspecified  | Diagnosis     | ICD-10-CM |
| S98.922A | Partial traumatic amputation of left foot, level unspecified, initial encounter                         | Diagnosis     | ICD-10-CM |
| S98.922D | Partial traumatic amputation of left foot, level unspecified, subsequent encounter                      | Diagnosis     | ICD-10-CM |
| S98.922S | Partial traumatic amputation of left foot, level unspecified, sequela                                   | Diagnosis     | ICD-10-CM |
| S98.929  | Partial traumatic amputation of unspecified foot, level unspecified                                     | Diagnosis     | ICD-10-CM |
| S98.929A | Partial traumatic amputation of unspecified foot, level unspecified, initial encounter                  | Diagnosis     | ICD-10-CM |
| S98.929D | Partial traumatic amputation of unspecified foot, level unspecified, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S98.929S | Partial traumatic amputation of unspecified foot, level unspecified, sequela                            | Diagnosis     | ICD-10-CM |
| S99      | Other and unspecified injuries of ankle and foot  | Diagnosis     | ICD-10-CM |
| S99.0    | Physeal fracture of calcaneus   | Diagnosis     | ICD-10-CM |
| S99.00   | Unspecified physeal fracture of calcaneus   | Diagnosis     | ICD-10-CM |
| S99.001  | Unspecified physeal fracture of right calcaneus   | Diagnosis     | ICD-10-CM |
| S99.001A | Unspecified physeal fracture of right calcaneus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S99.001B | Unspecified physeal fracture of right calcaneus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S99.001D | Unspecified physeal fracture of right calcaneus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S99.001G | Unspecified physeal fracture of right calcaneus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S99.001K | Unspecified physeal fracture of right calcaneus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S99.001P | Unspecified physeal fracture of right calcaneus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S99.001S | Unspecified physeal fracture of right calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S99.002  | Unspecified physeal fracture of left calcaneus  | Diagnosis     | ICD-10-CM |
| S99.002A | Unspecified physeal fracture of left calcaneus, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S99.002B | Unspecified physeal fracture of left calcaneus, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S99.002D | Unspecified physeal fracture of left calcaneus, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S99.002G | Unspecified physeal fracture of left calcaneus, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S99.002K | Unspecified physeal fracture of left calcaneus, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S99.002P | Unspecified physeal fracture of left calcaneus, subsequent encounter for fracture with malunion                  | Diagnosis     | ICD-10-CM |
| S99.002S | Unspecified physeal fracture of left calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S99.009  | Unspecified physeal fracture of unspecified calcaneus  | Diagnosis     | ICD-10-CM |
| S99.009A | Unspecified physeal fracture of unspecified calcaneus, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S99.009B | Unspecified physeal fracture of unspecified calcaneus, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S99.009D | Unspecified physeal fracture of unspecified calcaneus, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S99.009G | Unspecified physeal fracture of unspecified calcaneus, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S99.009K | Unspecified physeal fracture of unspecified calcaneus, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S99.009P | Unspecified physeal fracture of unspecified calcaneus, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S99.009S | Unspecified physeal fracture of unspecified calcaneus, sequela   | Diagnosis     | ICD-10-CM |
| S99.01   | Salter-Harris Type I physeal fracture of calcaneus   | Diagnosis     | ICD-10-CM |
| S99.011  | Salter-Harris Type I physeal fracture of right calcaneus   | Diagnosis     | ICD-10-CM |
| S99.011A | Salter-Harris Type I physeal fracture of right calcaneus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S99.011B | Salter-Harris Type I physeal fracture of right calcaneus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S99.011D | Salter-Harris Type I physeal fracture of right calcaneus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S99.011G | Salter-Harris Type I physeal fracture of right calcaneus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S99.011K | Salter-Harris Type I physeal fracture of right calcaneus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S99.011P | Salter-Harris Type I physeal fracture of right calcaneus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S99.011S | Salter-Harris Type I physeal fracture of right calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S99.012  | Salter-Harris Type I physeal fracture of left calcaneus  | Diagnosis     | ICD-10-CM |
| S99.012A | Salter-Harris Type I physeal fracture of left calcaneus, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |
| S99.012B | Salter-Harris Type I physeal fracture of left calcaneus, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S99.012D | Salter-Harris Type I physeal fracture of left calcaneus, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S99.012G | Salter-Harris Type I physeal fracture of left calcaneus, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S99.012K | Salter-Harris Type I physeal fracture of left calcaneus, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S99.012P | Salter-Harris Type I physeal fracture of left calcaneus, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S99.012S | Salter-Harris Type I physeal fracture of left calcaneus, sequela   | Diagnosis     | ICD-10-CM |
| S99.019  | Salter-Harris Type I physeal fracture of unspecified calcaneus   | Diagnosis     | ICD-10-CM |
| S99.019A | Salter-Harris Type I physeal fracture of unspecified calcaneus, initial encounter for closed fracture            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S99.019B | Salter-Harris Type I physeal fracture of unspecified calcaneus, initial encounter for open fracture                     | Diagnosis     | ICD-10-CM |
| S99.019D | Salter-Harris Type I physeal fracture of unspecified calcaneus, subsequent encounter for fracture with routine healing  | Diagnosis     | ICD-10-CM |
| S99.019G | Salter-Harris Type I physeal fracture of unspecified calcaneus, subsequent encounter for fracture with delayed healing  | Diagnosis     | ICD-10-CM |
| S99.019K | Salter-Harris Type I physeal fracture of unspecified calcaneus, subsequent encounter for fracture with nonunion         | Diagnosis     | ICD-10-CM |
| S99.019P | Salter-Harris Type I physeal fracture of unspecified calcaneus, subsequent encounter for fracture with malunion         | Diagnosis     | ICD-10-CM |
| S99.019S | Salter-Harris Type I physeal fracture of unspecified calcaneus, sequela   | Diagnosis     | ICD-10-CM |
| S99.02   | Salter-Harris Type II physeal fracture of calcaneus   | Diagnosis     | ICD-10-CM |
| S99.021  | Salter-Harris Type II physeal fracture of right calcaneus   | Diagnosis     | ICD-10-CM |
| S99.021A | Salter-Harris Type II physeal fracture of right calcaneus, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S99.021B | Salter-Harris Type II physeal fracture of right calcaneus, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S99.021D | Salter-Harris Type II physeal fracture of right calcaneus, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S99.021G | Salter-Harris Type II physeal fracture of right calcaneus, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S99.021K | Salter-Harris Type II physeal fracture of right calcaneus, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S99.021P | Salter-Harris Type II physeal fracture of right calcaneus, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S99.021S | Salter-Harris Type II physeal fracture of right calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S99.022  | Salter-Harris Type II physeal fracture of left calcaneus  | Diagnosis     | ICD-10-CM |
| S99.022A | Salter-Harris Type II physeal fracture of left calcaneus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S99.022B | Salter-Harris Type II physeal fracture of left calcaneus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S99.022D | Salter-Harris Type II physeal fracture of left calcaneus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S99.022G | Salter-Harris Type II physeal fracture of left calcaneus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S99.022K | Salter-Harris Type II physeal fracture of left calcaneus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S99.022P | Salter-Harris Type II physeal fracture of left calcaneus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S99.022S | Salter-Harris Type II physeal fracture of left calcaneus, sequela   | Diagnosis     | ICD-10-CM |
| S99.029  | Salter-Harris Type II physeal fracture of unspecified calcaneus   | Diagnosis     | ICD-10-CM |
| S99.029A | Salter-Harris Type II physeal fracture of unspecified calcaneus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S99.029B | Salter-Harris Type II physeal fracture of unspecified calcaneus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S99.029D | Salter-Harris Type II physeal fracture of unspecified calcaneus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S99.029G | Salter-Harris Type II physeal fracture of unspecified calcaneus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S99.029K | Salter-Harris Type II physeal fracture of unspecified calcaneus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S99.029P | Salter-Harris Type II physeal fracture of unspecified calcaneus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S99.029S | Salter-Harris Type II physeal fracture of unspecified calcaneus, sequela  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S99.03   | Salter-Harris Type III physeal fracture of calcaneus   | Diagnosis     | ICD-10-CM |
| S99.031  | Salter-Harris Type III physeal fracture of right calcaneus   | Diagnosis     | ICD-10-CM |
| S99.031A | Salter-Harris Type III physeal fracture of right calcaneus, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S99.031B | Salter-Harris Type III physeal fracture of right calcaneus, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S99.031D | Salter-Harris Type III physeal fracture of right calcaneus, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S99.031G | Salter-Harris Type III physeal fracture of right calcaneus, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S99.031K | Salter-Harris Type III physeal fracture of right calcaneus, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S99.031P | Salter-Harris Type III physeal fracture of right calcaneus, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S99.031S | Salter-Harris Type III physeal fracture of right calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S99.032  | Salter-Harris Type III physeal fracture of left calcaneus  | Diagnosis     | ICD-10-CM |
| S99.032A | Salter-Harris Type III physeal fracture of left calcaneus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S99.032B | Salter-Harris Type III physeal fracture of left calcaneus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S99.032D | Salter-Harris Type III physeal fracture of left calcaneus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S99.032G | Salter-Harris Type III physeal fracture of left calcaneus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S99.032K | Salter-Harris Type III physeal fracture of left calcaneus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S99.032P | Salter-Harris Type III physeal fracture of left calcaneus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S99.032S | Salter-Harris Type III physeal fracture of left calcaneus, sequela   | Diagnosis     | ICD-10-CM |
| S99.039  | Salter-Harris Type III physeal fracture of unspecified calcaneus   | Diagnosis     | ICD-10-CM |
| S99.039A | Salter-Harris Type III physeal fracture of unspecified calcaneus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S99.039B | Salter-Harris Type III physeal fracture of unspecified calcaneus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S99.039D | Salter-Harris Type III physeal fracture of unspecified calcaneus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S99.039G | Salter-Harris Type III physeal fracture of unspecified calcaneus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S99.039K | Salter-Harris Type III physeal fracture of unspecified calcaneus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S99.039P | Salter-Harris Type III physeal fracture of unspecified calcaneus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S99.039S | Salter-Harris Type III physeal fracture of unspecified calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S99.04   | Salter-Harris Type IV physeal fracture of calcaneus  | Diagnosis     | ICD-10-CM |
| S99.041  | Salter-Harris Type IV physeal fracture of right calcaneus  | Diagnosis     | ICD-10-CM |
| S99.041A | Salter-Harris Type IV physeal fracture of right calcaneus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S99.041B | Salter-Harris Type IV physeal fracture of right calcaneus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S99.041D | Salter-Harris Type IV physeal fracture of right calcaneus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S99.041G | Salter-Harris Type IV physeal fracture of right calcaneus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S99.041K | Salter-Harris Type IV physeal fracture of right calcaneus, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S99.041P | Salter-Harris Type IV physeal fracture of right calcaneus, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S99.041S | Salter-Harris Type IV physeal fracture of right calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S99.042  | Salter-Harris Type IV physeal fracture of left calcaneus  | Diagnosis     | ICD-10-CM |
| S99.042A | Salter-Harris Type IV physeal fracture of left calcaneus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S99.042B | Salter-Harris Type IV physeal fracture of left calcaneus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S99.042D | Salter-Harris Type IV physeal fracture of left calcaneus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S99.042G | Salter-Harris Type IV physeal fracture of left calcaneus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S99.042K | Salter-Harris Type IV physeal fracture of left calcaneus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S99.042P | Salter-Harris Type IV physeal fracture of left calcaneus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S99.042S | Salter-Harris Type IV physeal fracture of left calcaneus, sequela   | Diagnosis     | ICD-10-CM |
| S99.049  | Salter-Harris Type IV physeal fracture of unspecified calcaneus   | Diagnosis     | ICD-10-CM |
| S99.049A | Salter-Harris Type IV physeal fracture of unspecified calcaneus, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S99.049B | Salter-Harris Type IV physeal fracture of unspecified calcaneus, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S99.049D | Salter-Harris Type IV physeal fracture of unspecified calcaneus, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S99.049G | Salter-Harris Type IV physeal fracture of unspecified calcaneus, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S99.049K | Salter-Harris Type IV physeal fracture of unspecified calcaneus, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S99.049P | Salter-Harris Type IV physeal fracture of unspecified calcaneus, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S99.049S | Salter-Harris Type IV physeal fracture of unspecified calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S99.09   | Other physeal fracture of calcaneus   | Diagnosis     | ICD-10-CM |
| S99.091  | Other physeal fracture of right calcaneus   | Diagnosis     | ICD-10-CM |
| S99.091A | Other physeal fracture of right calcaneus, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S99.091B | Other physeal fracture of right calcaneus, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S99.091D | Other physeal fracture of right calcaneus, subsequent encounter for fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S99.091G | Other physeal fracture of right calcaneus, subsequent encounter for fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S99.091K | Other physeal fracture of right calcaneus, subsequent encounter for fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S99.091P | Other physeal fracture of right calcaneus, subsequent encounter for fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S99.091S | Other physeal fracture of right calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S99.092  | Other physeal fracture of left calcaneus  | Diagnosis     | ICD-10-CM |
| S99.092A | Other physeal fracture of left calcaneus, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S99.092B | Other physeal fracture of left calcaneus, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S99.092D | Other physeal fracture of left calcaneus, subsequent encounter for fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S99.092G | Other physeal fracture of left calcaneus, subsequent encounter for fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S99.092K | Other physeal fracture of left calcaneus, subsequent encounter for fracture with nonunion                               | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S99.092P | Other physeal fracture of left calcaneus, subsequent encounter for fracture with malunion                      | Diagnosis     | ICD-10-CM |
| S99.092S | Other physeal fracture of left calcaneus, sequela  | Diagnosis     | ICD-10-CM |
| S99.099  | Other physeal fracture of unspecified calcaneus  | Diagnosis     | ICD-10-CM |
| S99.099A | Other physeal fracture of unspecified calcaneus, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S99.099B | Other physeal fracture of unspecified calcaneus, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S99.099D | Other physeal fracture of unspecified calcaneus, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S99.099G | Other physeal fracture of unspecified calcaneus, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S99.099K | Other physeal fracture of unspecified calcaneus, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S99.099P | Other physeal fracture of unspecified calcaneus, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S99.099S | Other physeal fracture of unspecified calcaneus, sequela   | Diagnosis     | ICD-10-CM |
| S99.1    | Physeal fracture of metatarsal   | Diagnosis     | ICD-10-CM |
| S99.10   | Unspecified physeal fracture of metatarsal   | Diagnosis     | ICD-10-CM |
| S99.101  | Unspecified physeal fracture of right metatarsal   | Diagnosis     | ICD-10-CM |
| S99.101A | Unspecified physeal fracture of right metatarsal, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S99.101B | Unspecified physeal fracture of right metatarsal, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S99.101D | Unspecified physeal fracture of right metatarsal, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S99.101G | Unspecified physeal fracture of right metatarsal, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S99.101K | Unspecified physeal fracture of right metatarsal, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S99.101P | Unspecified physeal fracture of right metatarsal, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S99.101S | Unspecified physeal fracture of right metatarsal, sequela  | Diagnosis     | ICD-10-CM |
| S99.102  | Unspecified physeal fracture of left metatarsal  | Diagnosis     | ICD-10-CM |
| S99.102A | Unspecified physeal fracture of left metatarsal, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S99.102B | Unspecified physeal fracture of left metatarsal, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S99.102D | Unspecified physeal fracture of left metatarsal, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S99.102G | Unspecified physeal fracture of left metatarsal, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S99.102K | Unspecified physeal fracture of left metatarsal, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S99.102P | Unspecified physeal fracture of left metatarsal, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S99.102S | Unspecified physeal fracture of left metatarsal, sequela   | Diagnosis     | ICD-10-CM |
| S99.109  | Unspecified physeal fracture of unspecified metatarsal   | Diagnosis     | ICD-10-CM |
| S99.109A | Unspecified physeal fracture of unspecified metatarsal, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S99.109B | Unspecified physeal fracture of unspecified metatarsal, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S99.109D | Unspecified physeal fracture of unspecified metatarsal, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S99.109G | Unspecified physeal fracture of unspecified metatarsal, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S99.109K | Unspecified physeal fracture of unspecified metatarsal, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S99.109P | Unspecified physeal fracture of unspecified metatarsal, subsequent encounter for fracture with malunion                 | Diagnosis     | ICD-10-CM |
| S99.109S | Unspecified physeal fracture of unspecified metatarsal, sequela   | Diagnosis     | ICD-10-CM |
| S99.11   | Salter-Harris Type I physeal fracture of metatarsal   | Diagnosis     | ICD-10-CM |
| S99.111  | Salter-Harris Type I physeal fracture of right metatarsal   | Diagnosis     | ICD-10-CM |
| S99.111A | Salter-Harris Type I physeal fracture of right metatarsal, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S99.111B | Salter-Harris Type I physeal fracture of right metatarsal, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S99.111D | Salter-Harris Type I physeal fracture of right metatarsal, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S99.111G | Salter-Harris Type I physeal fracture of right metatarsal, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S99.111K | Salter-Harris Type I physeal fracture of right metatarsal, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S99.111P | Salter-Harris Type I physeal fracture of right metatarsal, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S99.111S | Salter-Harris Type I physeal fracture of right metatarsal, sequela  | Diagnosis     | ICD-10-CM |
| S99.112  | Salter-Harris Type I physeal fracture of left metatarsal  | Diagnosis     | ICD-10-CM |
| S99.112A | Salter-Harris Type I physeal fracture of left metatarsal, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S99.112B | Salter-Harris Type I physeal fracture of left metatarsal, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S99.112D | Salter-Harris Type I physeal fracture of left metatarsal, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S99.112G | Salter-Harris Type I physeal fracture of left metatarsal, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S99.112K | Salter-Harris Type I physeal fracture of left metatarsal, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S99.112P | Salter-Harris Type I physeal fracture of left metatarsal, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S99.112S | Salter-Harris Type I physeal fracture of left metatarsal, sequela   | Diagnosis     | ICD-10-CM |
| S99.119  | Salter-Harris Type I physeal fracture of unspecified metatarsal   | Diagnosis     | ICD-10-CM |
| S99.119A | Salter-Harris Type I physeal fracture of unspecified metatarsal, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S99.119B | Salter-Harris Type I physeal fracture of unspecified metatarsal, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S99.119D | Salter-Harris Type I physeal fracture of unspecified metatarsal, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S99.119G | Salter-Harris Type I physeal fracture of unspecified metatarsal, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S99.119K | Salter-Harris Type I physeal fracture of unspecified metatarsal, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S99.119P | Salter-Harris Type I physeal fracture of unspecified metatarsal, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S99.119S | Salter-Harris Type I physeal fracture of unspecified metatarsal, sequela  | Diagnosis     | ICD-10-CM |
| S99.12   | Salter-Harris Type II physeal fracture of metatarsal  | Diagnosis     | ICD-10-CM |
| S99.121  | Salter-Harris Type II physeal fracture of right metatarsal  | Diagnosis     | ICD-10-CM |
| S99.121A | Salter-Harris Type II physeal fracture of right metatarsal, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S99.121B | Salter-Harris Type II physeal fracture of right metatarsal, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S99.121D | Salter-Harris Type II physeal fracture of right metatarsal, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S99.121G | Salter-Harris Type II physeal fracture of right metatarsal, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S99.121K | Salter-Harris Type II physeal fracture of right metatarsal, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |
| S99.121P | Salter-Harris Type II physeal fracture of right metatarsal, subsequent encounter for fracture with malunion              | Diagnosis     | ICD-10-CM |
| S99.121S | Salter-Harris Type II physeal fracture of right metatarsal, sequela  | Diagnosis     | ICD-10-CM |
| S99.122  | Salter-Harris Type II physeal fracture of left metatarsal  | Diagnosis     | ICD-10-CM |
| S99.122A | Salter-Harris Type II physeal fracture of left metatarsal, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S99.122B | Salter-Harris Type II physeal fracture of left metatarsal, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S99.122D | Salter-Harris Type II physeal fracture of left metatarsal, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S99.122G | Salter-Harris Type II physeal fracture of left metatarsal, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S99.122K | Salter-Harris Type II physeal fracture of left metatarsal, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S99.122P | Salter-Harris Type II physeal fracture of left metatarsal, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S99.122S | Salter-Harris Type II physeal fracture of left metatarsal, sequela   | Diagnosis     | ICD-10-CM |
| S99.129  | Salter-Harris Type II physeal fracture of unspecified metatarsal   | Diagnosis     | ICD-10-CM |
| S99.129A | Salter-Harris Type II physeal fracture of unspecified metatarsal, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S99.129B | Salter-Harris Type II physeal fracture of unspecified metatarsal, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S99.129D | Salter-Harris Type II physeal fracture of unspecified metatarsal, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S99.129G | Salter-Harris Type II physeal fracture of unspecified metatarsal, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S99.129K | Salter-Harris Type II physeal fracture of unspecified metatarsal, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S99.129P | Salter-Harris Type II physeal fracture of unspecified metatarsal, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S99.129S | Salter-Harris Type II physeal fracture of unspecified metatarsal, sequela  | Diagnosis     | ICD-10-CM |
| S99.13   | Salter-Harris Type III physeal fracture of metatarsal  | Diagnosis     | ICD-10-CM |
| S99.131  | Salter-Harris Type III physeal fracture of right metatarsal  | Diagnosis     | ICD-10-CM |
| S99.131A | Salter-Harris Type III physeal fracture of right metatarsal, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S99.131B | Salter-Harris Type III physeal fracture of right metatarsal, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S99.131D | Salter-Harris Type III physeal fracture of right metatarsal, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S99.131G | Salter-Harris Type III physeal fracture of right metatarsal, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S99.131K | Salter-Harris Type III physeal fracture of right metatarsal, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S99.131P | Salter-Harris Type III physeal fracture of right metatarsal, subsequent encounter for fracture with malunion             | Diagnosis     | ICD-10-CM |
| S99.131S | Salter-Harris Type III physeal fracture of right metatarsal, sequela   | Diagnosis     | ICD-10-CM |
| S99.132  | Salter-Harris Type III physeal fracture of left metatarsal   | Diagnosis     | ICD-10-CM |
| S99.132A | Salter-Harris Type III physeal fracture of left metatarsal, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S99.132B | Salter-Harris Type III physeal fracture of left metatarsal, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S99.132D | Salter-Harris Type III physeal fracture of left metatarsal, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S99.132G | Salter-Harris Type III physeal fracture of left metatarsal, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S99.132K | Salter-Harris Type III physeal fracture of left metatarsal, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S99.132P | Salter-Harris Type III physeal fracture of left metatarsal, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S99.132S | Salter-Harris Type III physeal fracture of left metatarsal, sequela   | Diagnosis     | ICD-10-CM |
| S99.139  | Salter-Harris Type III physeal fracture of unspecified metatarsal   | Diagnosis     | ICD-10-CM |
| S99.139A | Salter-Harris Type III physeal fracture of unspecified metatarsal, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S99.139B | Salter-Harris Type III physeal fracture of unspecified metatarsal, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S99.139D | Salter-Harris Type III physeal fracture of unspecified metatarsal, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S99.139G | Salter-Harris Type III physeal fracture of unspecified metatarsal, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S99.139K | Salter-Harris Type III physeal fracture of unspecified metatarsal, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S99.139P | Salter-Harris Type III physeal fracture of unspecified metatarsal, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S99.139S | Salter-Harris Type III physeal fracture of unspecified metatarsal, sequela  | Diagnosis     | ICD-10-CM |
| S99.14   | Salter-Harris Type IV physeal fracture of metatarsal  | Diagnosis     | ICD-10-CM |
| S99.141  | Salter-Harris Type IV physeal fracture of right metatarsal  | Diagnosis     | ICD-10-CM |
| S99.141A | Salter-Harris Type IV physeal fracture of right metatarsal, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S99.141B | Salter-Harris Type IV physeal fracture of right metatarsal, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S99.141D | Salter-Harris Type IV physeal fracture of right metatarsal, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S99.141G | Salter-Harris Type IV physeal fracture of right metatarsal, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S99.141K | Salter-Harris Type IV physeal fracture of right metatarsal, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S99.141P | Salter-Harris Type IV physeal fracture of right metatarsal, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S99.141S | Salter-Harris Type IV physeal fracture of right metatarsal, sequela   | Diagnosis     | ICD-10-CM |
| S99.142  | Salter-Harris Type IV physeal fracture of left metatarsal   | Diagnosis     | ICD-10-CM |
| S99.142A | Salter-Harris Type IV physeal fracture of left metatarsal, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S99.142B | Salter-Harris Type IV physeal fracture of left metatarsal, initial encounter for open fracture                            | Diagnosis     | ICD-10-CM |
| S99.142D | Salter-Harris Type IV physeal fracture of left metatarsal, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S99.142G | Salter-Harris Type IV physeal fracture of left metatarsal, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S99.142K | Salter-Harris Type IV physeal fracture of left metatarsal, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S99.142P | Salter-Harris Type IV physeal fracture of left metatarsal, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S99.142S | Salter-Harris Type IV physeal fracture of left metatarsal, sequela  | Diagnosis     | ICD-10-CM |
| S99.149  | Salter-Harris Type IV physeal fracture of unspecified metatarsal  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S99.149A | Salter-Harris Type IV physeal fracture of unspecified metatarsal, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S99.149B | Salter-Harris Type IV physeal fracture of unspecified metatarsal, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S99.149D | Salter-Harris Type IV physeal fracture of unspecified metatarsal, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S99.149G | Salter-Harris Type IV physeal fracture of unspecified metatarsal, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S99.149K | Salter-Harris Type IV physeal fracture of unspecified metatarsal, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S99.149P | Salter-Harris Type IV physeal fracture of unspecified metatarsal, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S99.149S | Salter-Harris Type IV physeal fracture of unspecified metatarsal, sequela  | Diagnosis     | ICD-10-CM |
| S99.19   | Other physeal fracture of metatarsal   | Diagnosis     | ICD-10-CM |
| S99.191  | Other physeal fracture of right metatarsal   | Diagnosis     | ICD-10-CM |
| S99.191A | Other physeal fracture of right metatarsal, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S99.191B | Other physeal fracture of right metatarsal, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S99.191D | Other physeal fracture of right metatarsal, subsequent encounter for fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S99.191G | Other physeal fracture of right metatarsal, subsequent encounter for fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S99.191K | Other physeal fracture of right metatarsal, subsequent encounter for fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S99.191P | Other physeal fracture of right metatarsal, subsequent encounter for fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S99.191S | Other physeal fracture of right metatarsal, sequela  | Diagnosis     | ICD-10-CM |
| S99.192  | Other physeal fracture of left metatarsal  | Diagnosis     | ICD-10-CM |
| S99.192A | Other physeal fracture of left metatarsal, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S99.192B | Other physeal fracture of left metatarsal, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S99.192D | Other physeal fracture of left metatarsal, subsequent encounter for fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S99.192G | Other physeal fracture of left metatarsal, subsequent encounter for fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S99.192K | Other physeal fracture of left metatarsal, subsequent encounter for fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S99.192P | Other physeal fracture of left metatarsal, subsequent encounter for fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S99.192S | Other physeal fracture of left metatarsal, sequela   | Diagnosis     | ICD-10-CM |
| S99.199  | Other physeal fracture of unspecified metatarsal   | Diagnosis     | ICD-10-CM |
| S99.199A | Other physeal fracture of unspecified metatarsal, initial encounter for closed fracture                                  | Diagnosis     | ICD-10-CM |
| S99.199B | Other physeal fracture of unspecified metatarsal, initial encounter for open fracture                                    | Diagnosis     | ICD-10-CM |
| S99.199D | Other physeal fracture of unspecified metatarsal, subsequent encounter for fracture with routine healing                 | Diagnosis     | ICD-10-CM |
| S99.199G | Other physeal fracture of unspecified metatarsal, subsequent encounter for fracture with delayed healing                 | Diagnosis     | ICD-10-CM |
| S99.199K | Other physeal fracture of unspecified metatarsal, subsequent encounter for fracture with nonunion                        | Diagnosis     | ICD-10-CM |
| S99.199P | Other physeal fracture of unspecified metatarsal, subsequent encounter for fracture with malunion                        | Diagnosis     | ICD-10-CM |
| S99.199S | Other physeal fracture of unspecified metatarsal, sequela  | Diagnosis     | ICD-10-CM |
| S99.2    | Physeal fracture of phalanx of toe   | Diagnosis     | ICD-10-CM |
| S99.20   | Unspecified physeal fracture of phalanx of toe   | Diagnosis     | ICD-10-CM |
| S99.201  | Unspecified physeal fracture of phalanx of right toe   | Diagnosis     | ICD-10-CM |
| S99.201A | Unspecified physeal fracture of phalanx of right toe, initial encounter for closed fracture                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S99.201B | Unspecified physeal fracture of phalanx of right toe, initial encounter for open fracture                             | Diagnosis     | ICD-10-CM |
| S99.201D | Unspecified physeal fracture of phalanx of right toe, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| S99.201G | Unspecified physeal fracture of phalanx of right toe, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| S99.201K | Unspecified physeal fracture of phalanx of right toe, subsequent encounter for fracture with nonunion                 | Diagnosis     | ICD-10-CM |
| S99.201P | Unspecified physeal fracture of phalanx of right toe, subsequent encounter for fracture with malunion                 | Diagnosis     | ICD-10-CM |
| S99.201S | Unspecified physeal fracture of phalanx of right toe, sequela   | Diagnosis     | ICD-10-CM |
| S99.202  | Unspecified physeal fracture of phalanx of left toe   | Diagnosis     | ICD-10-CM |
| S99.202A | Unspecified physeal fracture of phalanx of left toe, initial encounter for closed fracture                            | Diagnosis     | ICD-10-CM |
| S99.202B | Unspecified physeal fracture of phalanx of left toe, initial encounter for open fracture                              | Diagnosis     | ICD-10-CM |
| S99.202D | Unspecified physeal fracture of phalanx of left toe, subsequent encounter for fracture with routine healing           | Diagnosis     | ICD-10-CM |
| S99.202G | Unspecified physeal fracture of phalanx of left toe, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| S99.202K | Unspecified physeal fracture of phalanx of left toe, subsequent encounter for fracture with nonunion                  | Diagnosis     | ICD-10-CM |
| S99.202P | Unspecified physeal fracture of phalanx of left toe, subsequent encounter for fracture with malunion                  | Diagnosis     | ICD-10-CM |
| S99.202S | Unspecified physeal fracture of phalanx of left toe, sequela  | Diagnosis     | ICD-10-CM |
| S99.209  | Unspecified physeal fracture of phalanx of unspecified toe  | Diagnosis     | ICD-10-CM |
| S99.209A | Unspecified physeal fracture of phalanx of unspecified toe, initial encounter for closed fracture                     | Diagnosis     | ICD-10-CM |
| S99.209B | Unspecified physeal fracture of phalanx of unspecified toe, initial encounter for open fracture                       | Diagnosis     | ICD-10-CM |
| S99.209D | Unspecified physeal fracture of phalanx of unspecified toe, subsequent encounter for fracture with routine healing    | Diagnosis     | ICD-10-CM |
| S99.209G | Unspecified physeal fracture of phalanx of unspecified toe, subsequent encounter for fracture with delayed healing    | Diagnosis     | ICD-10-CM |
| S99.209K | Unspecified physeal fracture of phalanx of unspecified toe, subsequent encounter for fracture with nonunion           | Diagnosis     | ICD-10-CM |
| S99.209P | Unspecified physeal fracture of phalanx of unspecified toe, subsequent encounter for fracture with malunion           | Diagnosis     | ICD-10-CM |
| S99.209S | Unspecified physeal fracture of phalanx of unspecified toe, sequela   | Diagnosis     | ICD-10-CM |
| S99.21   | Salter-Harris Type I physeal fracture of phalanx of toe   | Diagnosis     | ICD-10-CM |
| S99.211  | Salter-Harris Type I physeal fracture of phalanx of right toe   | Diagnosis     | ICD-10-CM |
| S99.211A | Salter-Harris Type I physeal fracture of phalanx of right toe, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S99.211B | Salter-Harris Type I physeal fracture of phalanx of right toe, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S99.211D | Salter-Harris Type I physeal fracture of phalanx of right toe, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S99.211G | Salter-Harris Type I physeal fracture of phalanx of right toe, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S99.211K | Salter-Harris Type I physeal fracture of phalanx of right toe, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S99.211P | Salter-Harris Type I physeal fracture of phalanx of right toe, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S99.211S | Salter-Harris Type I physeal fracture of phalanx of right toe, sequela  | Diagnosis     | ICD-10-CM |
| S99.212  | Salter-Harris Type I physeal fracture of phalanx of left toe  | Diagnosis     | ICD-10-CM |
| S99.212A | Salter-Harris Type I physeal fracture of phalanx of left toe, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S99.212B | Salter-Harris Type I physeal fracture of phalanx of left toe, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S99.212D | Salter-Harris Type I physeal fracture of phalanx of left toe, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S99.212G | Salter-Harris Type I physeal fracture of phalanx of left toe, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S99.212K | Salter-Harris Type I physeal fracture of phalanx of left toe, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S99.212P | Salter-Harris Type I physeal fracture of phalanx of left toe, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S99.212S | Salter-Harris Type I physeal fracture of phalanx of left toe, sequela   | Diagnosis     | ICD-10-CM |
| S99.219  | Salter-Harris Type I physeal fracture of phalanx of unspecified toe   | Diagnosis     | ICD-10-CM |
| S99.219A | Salter-Harris Type I physeal fracture of phalanx of unspecified toe, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S99.219B | Salter-Harris Type I physeal fracture of phalanx of unspecified toe, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S99.219D | Salter-Harris Type I physeal fracture of phalanx of unspecified toe, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S99.219G | Salter-Harris Type I physeal fracture of phalanx of unspecified toe, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S99.219K | Salter-Harris Type I physeal fracture of phalanx of unspecified toe, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S99.219P | Salter-Harris Type I physeal fracture of phalanx of unspecified toe, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S99.219S | Salter-Harris Type I physeal fracture of phalanx of unspecified toe, sequela  | Diagnosis     | ICD-10-CM |
| S99.22   | Salter-Harris Type II physeal fracture of phalanx of toe  | Diagnosis     | ICD-10-CM |
| S99.221  | Salter-Harris Type II physeal fracture of phalanx of right toe  | Diagnosis     | ICD-10-CM |
| S99.221A | Salter-Harris Type II physeal fracture of phalanx of right toe, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S99.221B | Salter-Harris Type II physeal fracture of phalanx of right toe, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S99.221D | Salter-Harris Type II physeal fracture of phalanx of right toe, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S99.221G | Salter-Harris Type II physeal fracture of phalanx of right toe, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S99.221K | Salter-Harris Type II physeal fracture of phalanx of right toe, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S99.221P | Salter-Harris Type II physeal fracture of phalanx of right toe, subsequent encounter for fracture with malunion             | Diagnosis     | ICD-10-CM |
| S99.221S | Salter-Harris Type II physeal fracture of phalanx of right toe, sequela   | Diagnosis     | ICD-10-CM |
| S99.222  | Salter-Harris Type II physeal fracture of phalanx of left toe   | Diagnosis     | ICD-10-CM |
| S99.222A | Salter-Harris Type II physeal fracture of phalanx of left toe, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S99.222B | Salter-Harris Type II physeal fracture of phalanx of left toe, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S99.222D | Salter-Harris Type II physeal fracture of phalanx of left toe, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S99.222G | Salter-Harris Type II physeal fracture of phalanx of left toe, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S99.222K | Salter-Harris Type II physeal fracture of phalanx of left toe, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S99.222P | Salter-Harris Type II physeal fracture of phalanx of left toe, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S99.222S | Salter-Harris Type II physeal fracture of phalanx of left toe, sequela   | Diagnosis     | ICD-10-CM |
| S99.229  | Salter-Harris Type II physeal fracture of phalanx of unspecified toe   | Diagnosis     | ICD-10-CM |
| S99.229A | Salter-Harris Type II physeal fracture of phalanx of unspecified toe, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S99.229B | Salter-Harris Type II physeal fracture of phalanx of unspecified toe, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S99.229D | Salter-Harris Type II physeal fracture of phalanx of unspecified toe, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S99.229G | Salter-Harris Type II physeal fracture of phalanx of unspecified toe, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S99.229K | Salter-Harris Type II physeal fracture of phalanx of unspecified toe, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S99.229P | Salter-Harris Type II physeal fracture of phalanx of unspecified toe, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S99.229S | Salter-Harris Type II physeal fracture of phalanx of unspecified toe, sequela  | Diagnosis     | ICD-10-CM |
| S99.23   | Salter-Harris Type III physeal fracture of phalanx of toe  | Diagnosis     | ICD-10-CM |
| S99.231  | Salter-Harris Type III physeal fracture of phalanx of right toe  | Diagnosis     | ICD-10-CM |
| S99.231A | Salter-Harris Type III physeal fracture of phalanx of right toe, initial encounter for closed fracture                       | Diagnosis     | ICD-10-CM |
| S99.231B | Salter-Harris Type III physeal fracture of phalanx of right toe, initial encounter for open fracture                         | Diagnosis     | ICD-10-CM |
| S99.231D | Salter-Harris Type III physeal fracture of phalanx of right toe, subsequent encounter for fracture with routine healing      | Diagnosis     | ICD-10-CM |
| S99.231G | Salter-Harris Type III physeal fracture of phalanx of right toe, subsequent encounter for fracture with delayed healing      | Diagnosis     | ICD-10-CM |
| S99.231K | Salter-Harris Type III physeal fracture of phalanx of right toe, subsequent encounter for fracture with nonunion             | Diagnosis     | ICD-10-CM |
| S99.231P | Salter-Harris Type III physeal fracture of phalanx of right toe, subsequent encounter for fracture with malunion             | Diagnosis     | ICD-10-CM |
| S99.231S | Salter-Harris Type III physeal fracture of phalanx of right toe, sequela   | Diagnosis     | ICD-10-CM |
| S99.232  | Salter-Harris Type III physeal fracture of phalanx of left toe   | Diagnosis     | ICD-10-CM |
| S99.232A | Salter-Harris Type III physeal fracture of phalanx of left toe, initial encounter for closed fracture                        | Diagnosis     | ICD-10-CM |
| S99.232B | Salter-Harris Type III physeal fracture of phalanx of left toe, initial encounter for open fracture                          | Diagnosis     | ICD-10-CM |
| S99.232D | Salter-Harris Type III physeal fracture of phalanx of left toe, subsequent encounter for fracture with routine healing       | Diagnosis     | ICD-10-CM |
| S99.232G | Salter-Harris Type III physeal fracture of phalanx of left toe, subsequent encounter for fracture with delayed healing       | Diagnosis     | ICD-10-CM |
| S99.232K | Salter-Harris Type III physeal fracture of phalanx of left toe, subsequent encounter for fracture with nonunion              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S99.232P | Salter-Harris Type III physeal fracture of phalanx of left toe, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S99.232S | Salter-Harris Type III physeal fracture of phalanx of left toe, sequela   | Diagnosis     | ICD-10-CM |
| S99.239  | Salter-Harris Type III physeal fracture of phalanx of unspecified toe   | Diagnosis     | ICD-10-CM |
| S99.239A | Salter-Harris Type III physeal fracture of phalanx of unspecified toe, initial encounter for closed fracture                  | Diagnosis     | ICD-10-CM |
| S99.239B | Salter-Harris Type III physeal fracture of phalanx of unspecified toe, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S99.239D | Salter-Harris Type III physeal fracture of phalanx of unspecified toe, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S99.239G | Salter-Harris Type III physeal fracture of phalanx of unspecified toe, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S99.239K | Salter-Harris Type III physeal fracture of phalanx of unspecified toe, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S99.239P | Salter-Harris Type III physeal fracture of phalanx of unspecified toe, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S99.239S | Salter-Harris Type III physeal fracture of phalanx of unspecified toe, sequela  | Diagnosis     | ICD-10-CM |
| S99.24   | Salter-Harris Type IV physeal fracture of phalanx of toe  | Diagnosis     | ICD-10-CM |
| S99.241  | Salter-Harris Type IV physeal fracture of phalanx of right toe  | Diagnosis     | ICD-10-CM |
| S99.241A | Salter-Harris Type IV physeal fracture of phalanx of right toe, initial encounter for closed fracture                         | Diagnosis     | ICD-10-CM |
| S99.241B | Salter-Harris Type IV physeal fracture of phalanx of right toe, initial encounter for open fracture                           | Diagnosis     | ICD-10-CM |
| S99.241D | Salter-Harris Type IV physeal fracture of phalanx of right toe, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| S99.241G | Salter-Harris Type IV physeal fracture of phalanx of right toe, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| S99.241K | Salter-Harris Type IV physeal fracture of phalanx of right toe, subsequent encounter for fracture with nonunion               | Diagnosis     | ICD-10-CM |
| S99.241P | Salter-Harris Type IV physeal fracture of phalanx of right toe, subsequent encounter for fracture with malunion               | Diagnosis     | ICD-10-CM |
| S99.241S | Salter-Harris Type IV physeal fracture of phalanx of right toe, sequela   | Diagnosis     | ICD-10-CM |
| S99.242  | Salter-Harris Type IV physeal fracture of phalanx of left toe   | Diagnosis     | ICD-10-CM |
| S99.242A | Salter-Harris Type IV physeal fracture of phalanx of left toe, initial encounter for closed fracture                          | Diagnosis     | ICD-10-CM |
| S99.242B | Salter-Harris Type IV physeal fracture of phalanx of left toe, initial encounter for open fracture                            | Diagnosis     | ICD-10-CM |
| S99.242D | Salter-Harris Type IV physeal fracture of phalanx of left toe, subsequent encounter for fracture with routine healing         | Diagnosis     | ICD-10-CM |
| S99.242G | Salter-Harris Type IV physeal fracture of phalanx of left toe, subsequent encounter for fracture with delayed healing         | Diagnosis     | ICD-10-CM |
| S99.242K | Salter-Harris Type IV physeal fracture of phalanx of left toe, subsequent encounter for fracture with nonunion                | Diagnosis     | ICD-10-CM |
| S99.242P | Salter-Harris Type IV physeal fracture of phalanx of left toe, subsequent encounter for fracture with malunion                | Diagnosis     | ICD-10-CM |
| S99.242S | Salter-Harris Type IV physeal fracture of phalanx of left toe, sequela  | Diagnosis     | ICD-10-CM |
| S99.249  | Salter-Harris Type IV physeal fracture of phalanx of unspecified toe  | Diagnosis     | ICD-10-CM |
| S99.249A | Salter-Harris Type IV physeal fracture of phalanx of unspecified toe, initial encounter for closed fracture                   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| S99.249B | Salter-Harris Type IV physeal fracture of phalanx of unspecified toe, initial encounter for open fracture                    | Diagnosis     | ICD-10-CM |
| S99.249D | Salter-Harris Type IV physeal fracture of phalanx of unspecified toe, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| S99.249G | Salter-Harris Type IV physeal fracture of phalanx of unspecified toe, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| S99.249K | Salter-Harris Type IV physeal fracture of phalanx of unspecified toe, subsequent encounter for fracture with nonunion        | Diagnosis     | ICD-10-CM |
| S99.249P | Salter-Harris Type IV physeal fracture of phalanx of unspecified toe, subsequent encounter for fracture with malunion        | Diagnosis     | ICD-10-CM |
| S99.249S | Salter-Harris Type IV physeal fracture of phalanx of unspecified toe, sequela  | Diagnosis     | ICD-10-CM |
| S99.29   | Other physeal fracture of phalanx of toe   | Diagnosis     | ICD-10-CM |
| S99.291  | Other physeal fracture of phalanx of right toe   | Diagnosis     | ICD-10-CM |
| S99.291A | Other physeal fracture of phalanx of right toe, initial encounter for closed fracture  | Diagnosis     | ICD-10-CM |
| S99.291B | Other physeal fracture of phalanx of right toe, initial encounter for open fracture  | Diagnosis     | ICD-10-CM |
| S99.291D | Other physeal fracture of phalanx of right toe, subsequent encounter for fracture with routine healing                       | Diagnosis     | ICD-10-CM |
| S99.291G | Other physeal fracture of phalanx of right toe, subsequent encounter for fracture with delayed healing                       | Diagnosis     | ICD-10-CM |
| S99.291K | Other physeal fracture of phalanx of right toe, subsequent encounter for fracture with nonunion                              | Diagnosis     | ICD-10-CM |
| S99.291P | Other physeal fracture of phalanx of right toe, subsequent encounter for fracture with malunion                              | Diagnosis     | ICD-10-CM |
| S99.291S | Other physeal fracture of phalanx of right toe, sequela  | Diagnosis     | ICD-10-CM |
| S99.292  | Other physeal fracture of phalanx of left toe  | Diagnosis     | ICD-10-CM |
| S99.292A | Other physeal fracture of phalanx of left toe, initial encounter for closed fracture   | Diagnosis     | ICD-10-CM |
| S99.292B | Other physeal fracture of phalanx of left toe, initial encounter for open fracture   | Diagnosis     | ICD-10-CM |
| S99.292D | Other physeal fracture of phalanx of left toe, subsequent encounter for fracture with routine healing                        | Diagnosis     | ICD-10-CM |
| S99.292G | Other physeal fracture of phalanx of left toe, subsequent encounter for fracture with delayed healing                        | Diagnosis     | ICD-10-CM |
| S99.292K | Other physeal fracture of phalanx of left toe, subsequent encounter for fracture with nonunion                               | Diagnosis     | ICD-10-CM |
| S99.292P | Other physeal fracture of phalanx of left toe, subsequent encounter for fracture with malunion                               | Diagnosis     | ICD-10-CM |
| S99.292S | Other physeal fracture of phalanx of left toe, sequela   | Diagnosis     | ICD-10-CM |
| S99.299  | Other physeal fracture of phalanx of unspecified toe   | Diagnosis     | ICD-10-CM |
| S99.299A | Other physeal fracture of phalanx of unspecified toe, initial encounter for closed fracture                                  | Diagnosis     | ICD-10-CM |
| S99.299B | Other physeal fracture of phalanx of unspecified toe, initial encounter for open fracture                                    | Diagnosis     | ICD-10-CM |
| S99.299D | Other physeal fracture of phalanx of unspecified toe, subsequent encounter for fracture with routine healing                 | Diagnosis     | ICD-10-CM |
| S99.299G | Other physeal fracture of phalanx of unspecified toe, subsequent encounter for fracture with delayed healing                 | Diagnosis     | ICD-10-CM |
| S99.299K | Other physeal fracture of phalanx of unspecified toe, subsequent encounter for fracture with nonunion                        | Diagnosis     | ICD-10-CM |
| S99.299P | Other physeal fracture of phalanx of unspecified toe, subsequent encounter for fracture with malunion                        | Diagnosis     | ICD-10-CM |
| S99.299S | Other physeal fracture of phalanx of unspecified toe, sequela  | Diagnosis     | ICD-10-CM |
| S99.8    | Other specified injuries of ankle and foot   | Diagnosis     | ICD-10-CM |
| S99.81   | Other specified injuries of ankle  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| S99.811  | Other specified injuries of right ankle                             | Diagnosis     | ICD-10-CM |
| S99.811A | Other specified injuries of right ankle, initial encounter          | Diagnosis     | ICD-10-CM |
| S99.811D | Other specified injuries of right ankle, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S99.811S | Other specified injuries of right ankle, sequela                    | Diagnosis     | ICD-10-CM |
| S99.812  | Other specified injuries of left ankle                              | Diagnosis     | ICD-10-CM |
| S99.812A | Other specified injuries of left ankle, initial encounter           | Diagnosis     | ICD-10-CM |
| S99.812D | Other specified injuries of left ankle, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S99.812S | Other specified injuries of left ankle, sequela                     | Diagnosis     | ICD-10-CM |
| S99.819  | Other specified injuries of unspecified ankle                       | Diagnosis     | ICD-10-CM |
| S99.819A | Other specified injuries of unspecified ankle, initial encounter    | Diagnosis     | ICD-10-CM |
| S99.819D | Other specified injuries of unspecified ankle, subsequent encounter | Diagnosis     | ICD-10-CM |
| S99.819S | Other specified injuries of unspecified ankle, sequela              | Diagnosis     | ICD-10-CM |
| S99.82   | Other specified injuries of foot                                    | Diagnosis     | ICD-10-CM |
| S99.821  | Other specified injuries of right foot                              | Diagnosis     | ICD-10-CM |
| S99.821A | Other specified injuries of right foot, initial encounter           | Diagnosis     | ICD-10-CM |
| S99.821D | Other specified injuries of right foot, subsequent encounter        | Diagnosis     | ICD-10-CM |
| S99.821S | Other specified injuries of right foot, sequela                     | Diagnosis     | ICD-10-CM |
| S99.822  | Other specified injuries of left foot                               | Diagnosis     | ICD-10-CM |
| S99.822A | Other specified injuries of left foot, initial encounter            | Diagnosis     | ICD-10-CM |
| S99.822D | Other specified injuries of left foot, subsequent encounter         | Diagnosis     | ICD-10-CM |
| S99.822S | Other specified injuries of left foot, sequela                      | Diagnosis     | ICD-10-CM |
| S99.829  | Other specified injuries of unspecified foot                        | Diagnosis     | ICD-10-CM |
| S99.829A | Other specified injuries of unspecified foot, initial encounter     | Diagnosis     | ICD-10-CM |
| S99.829D | Other specified injuries of unspecified foot, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S99.829S | Other specified injuries of unspecified foot, sequela               | Diagnosis     | ICD-10-CM |
| S99.9    | Unspecified injury of ankle and foot                                | Diagnosis     | ICD-10-CM |
| S99.91   | Unspecified injury of ankle   | Diagnosis     | ICD-10-CM |
| S99.911  | Unspecified injury of right ankle                                   | Diagnosis     | ICD-10-CM |
| S99.911A | Unspecified injury of right ankle, initial encounter                | Diagnosis     | ICD-10-CM |
| S99.911D | Unspecified injury of right ankle, subsequent encounter             | Diagnosis     | ICD-10-CM |
| S99.911S | Unspecified injury of right ankle, sequela                          | Diagnosis     | ICD-10-CM |
| S99.912  | Unspecified injury of left ankle                                    | Diagnosis     | ICD-10-CM |
| S99.912A | Unspecified injury of left ankle, initial encounter                 | Diagnosis     | ICD-10-CM |
| S99.912D | Unspecified injury of left ankle, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S99.912S | Unspecified injury of left ankle, sequela                           | Diagnosis     | ICD-10-CM |
| S99.919  | Unspecified injury of unspecified ankle                             | Diagnosis     | ICD-10-CM |
| S99.919A | Unspecified injury of unspecified ankle, initial encounter          | Diagnosis     | ICD-10-CM |
| S99.919D | Unspecified injury of unspecified ankle, subsequent encounter       | Diagnosis     | ICD-10-CM |
| S99.919S | Unspecified injury of unspecified ankle, sequela                    | Diagnosis     | ICD-10-CM |
| S99.92   | Unspecified injury of foot  | Diagnosis     | ICD-10-CM |
| S99.921  | Unspecified injury of right foot                                    | Diagnosis     | ICD-10-CM |
| S99.921A | Unspecified injury of right foot, initial encounter                 | Diagnosis     | ICD-10-CM |
| S99.921D | Unspecified injury of right foot, subsequent encounter              | Diagnosis     | ICD-10-CM |
| S99.921S | Unspecified injury of right foot, sequela                           | Diagnosis     | ICD-10-CM |
| S99.922  | Unspecified injury of left foot                                     | Diagnosis     | ICD-10-CM |
| S99.922A | Unspecified injury of left foot, initial encounter                  | Diagnosis     | ICD-10-CM |
| S99.922D | Unspecified injury of left foot, subsequent encounter               | Diagnosis     | ICD-10-CM |
| S99.922S | Unspecified injury of left foot, sequela                            | Diagnosis     | ICD-10-CM |
| S99.929  | Unspecified injury of unspecified foot                              | Diagnosis     | ICD-10-CM |
| S99.929A | Unspecified injury of unspecified foot, initial encounter           | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code                   | Description   | Code Category | Code Type |
|------------------------|---|---------------|-----------|
| S99.929D               | Unspecified injury of unspecified foot, subsequent encounter  | Diagnosis     | ICD-10-CM |
| S99.929S               | Unspecified injury of unspecified foot, sequela               | Diagnosis     | ICD-10-CM |
| T07                    | Unspecified multiple injuries                                 | Diagnosis     | ICD-10-CM |
| T07.XXXA               | Unspecified multiple injuries, initial encounter              | Diagnosis     | ICD-10-CM |
| T07.XXXD               | Unspecified multiple injuries, subsequent encounter           | Diagnosis     | ICD-10-CM |
| T07.XXXS               | Unspecified multiple injuries, sequela                        | Diagnosis     | ICD-10-CM |
| T14                    | Injury of unspecified body region                             | Diagnosis     | ICD-10-CM |
| T14.8                  | Other injury of unspecified body region                       | Diagnosis     | ICD-10-CM |
| T14.8XXA               | Other injury of unspecified body region, initial encounter    | Diagnosis     | ICD-10-CM |
| T14.8XXD               | Other injury of unspecified body region, subsequent encounter | Diagnosis     | ICD-10-CM |
| T14.8XXS               | Other injury of unspecified body region, sequela              | Diagnosis     | ICD-10-CM |
| T14.9                  | Unspecified injury  | Diagnosis     | ICD-10-CM |
| T14.90                 | Injury, unspecified   | Diagnosis     | ICD-10-CM |
| T14.90XA               | Injury, unspecified, initial encounter                        | Diagnosis     | ICD-10-CM |
| T14.90XD               | Injury, unspecified, subsequent encounter                     | Diagnosis     | ICD-10-CM |
| T14.90XS               | Injury, unspecified, sequela                                  | Diagnosis     | ICD-10-CM |
| T14.91                 | Suicide attempt   | Diagnosis     | ICD-10-CM |
| T14.91XA               | Suicide attempt, initial encounter                            | Diagnosis     | ICD-10-CM |
| T14.91XD               | Suicide attempt, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| T14.91XS               | Suicide attempt, sequela                                      | Diagnosis     | ICD-10-CM |
| <b>Joint disorders</b> |   |               |           |
| M21.0                  | Valgus deformity, not elsewhere classified                    | Diagnosis     | ICD-10-CM |
| M21.00                 | Valgus deformity, not elsewhere classified, unspecified site  | Diagnosis     | ICD-10-CM |
| M21.02                 | Valgus deformity, not elsewhere classified, elbow             | Diagnosis     | ICD-10-CM |
| M21.021                | Valgus deformity, not elsewhere classified, right elbow       | Diagnosis     | ICD-10-CM |
| M21.022                | Valgus deformity, not elsewhere classified, left elbow        | Diagnosis     | ICD-10-CM |
| M21.029                | Valgus deformity, not elsewhere classified, unspecified elbow | Diagnosis     | ICD-10-CM |
| M21.05                 | Valgus deformity, not elsewhere classified, hip               | Diagnosis     | ICD-10-CM |
| M21.051                | Valgus deformity, not elsewhere classified, right hip         | Diagnosis     | ICD-10-CM |
| M21.052                | Valgus deformity, not elsewhere classified, left hip          | Diagnosis     | ICD-10-CM |
| M21.059                | Valgus deformity, not elsewhere classified, unspecified hip   | Diagnosis     | ICD-10-CM |
| M21.06                 | Valgus deformity, not elsewhere classified, knee              | Diagnosis     | ICD-10-CM |
| M21.061                | Valgus deformity, not elsewhere classified, right knee        | Diagnosis     | ICD-10-CM |
| M21.062                | Valgus deformity, not elsewhere classified, left knee         | Diagnosis     | ICD-10-CM |
| M21.069                | Valgus deformity, not elsewhere classified, unspecified knee  | Diagnosis     | ICD-10-CM |
| M21.07                 | Valgus deformity, not elsewhere classified, ankle             | Diagnosis     | ICD-10-CM |
| M21.071                | Valgus deformity, not elsewhere classified, right ankle       | Diagnosis     | ICD-10-CM |
| M21.072                | Valgus deformity, not elsewhere classified, left ankle        | Diagnosis     | ICD-10-CM |
| M21.079                | Valgus deformity, not elsewhere classified, unspecified ankle | Diagnosis     | ICD-10-CM |
| M21.1                  | Varus deformity, not elsewhere classified                     | Diagnosis     | ICD-10-CM |
| M21.10                 | Varus deformity, not elsewhere classified, unspecified site   | Diagnosis     | ICD-10-CM |
| M21.12                 | Varus deformity, not elsewhere classified, elbow              | Diagnosis     | ICD-10-CM |
| M21.121                | Varus deformity, not elsewhere classified, right elbow        | Diagnosis     | ICD-10-CM |
| M21.122                | Varus deformity, not elsewhere classified, left elbow         | Diagnosis     | ICD-10-CM |
| M21.129                | Varus deformity, not elsewhere classified, unspecified elbow  | Diagnosis     | ICD-10-CM |
| M21.15                 | Varus deformity, not elsewhere classified, hip                | Diagnosis     | ICD-10-CM |
| M21.151                | Varus deformity, not elsewhere classified, right hip          | Diagnosis     | ICD-10-CM |
| M21.152                | Varus deformity, not elsewhere classified, left hip           | Diagnosis     | ICD-10-CM |
| M21.159                | Varus deformity, not elsewhere classified, unspecified        | Diagnosis     | ICD-10-CM |
| M21.16                 | Varus deformity, not elsewhere classified, knee               | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| M21.161 | Varus deformity, not elsewhere classified, right knee        | Diagnosis     | ICD-10-CM |
| M21.162 | Varus deformity, not elsewhere classified, left knee         | Diagnosis     | ICD-10-CM |
| M21.169 | Varus deformity, not elsewhere classified, unspecified knee  | Diagnosis     | ICD-10-CM |
| M21.17  | Varus deformity, not elsewhere classified, ankle             | Diagnosis     | ICD-10-CM |
| M21.171 | Varus deformity, not elsewhere classified, right ankle       | Diagnosis     | ICD-10-CM |
| M21.172 | Varus deformity, not elsewhere classified, left ankle        | Diagnosis     | ICD-10-CM |
| M21.179 | Varus deformity, not elsewhere classified, unspecified ankle | Diagnosis     | ICD-10-CM |
| M21.2   | Flexion deformity  | Diagnosis     | ICD-10-CM |
| M21.20  | Flexion deformity, unspecified site                          | Diagnosis     | ICD-10-CM |
| M21.21  | Flexion deformity, shoulder                                  | Diagnosis     | ICD-10-CM |
| M21.211 | Flexion deformity, right shoulder                            | Diagnosis     | ICD-10-CM |
| M21.212 | Flexion deformity, left shoulder                             | Diagnosis     | ICD-10-CM |
| M21.219 | Flexion deformity, unspecified shoulder                      | Diagnosis     | ICD-10-CM |
| M21.22  | Flexion deformity, elbow                                     | Diagnosis     | ICD-10-CM |
| M21.221 | Flexion deformity, right elbow                               | Diagnosis     | ICD-10-CM |
| M21.222 | Flexion deformity, left elbow                                | Diagnosis     | ICD-10-CM |
| M21.229 | Flexion deformity, unspecified elbow                         | Diagnosis     | ICD-10-CM |
| M21.23  | Flexion deformity, wrist                                     | Diagnosis     | ICD-10-CM |
| M21.231 | Flexion deformity, right wrist                               | Diagnosis     | ICD-10-CM |
| M21.232 | Flexion deformity, left wrist                                | Diagnosis     | ICD-10-CM |
| M21.239 | Flexion deformity, unspecified wrist                         | Diagnosis     | ICD-10-CM |
| M21.24  | Flexion deformity, finger joints                             | Diagnosis     | ICD-10-CM |
| M21.241 | Flexion deformity, right finger joints                       | Diagnosis     | ICD-10-CM |
| M21.242 | Flexion deformity, left finger joints                        | Diagnosis     | ICD-10-CM |
| M21.249 | Flexion deformity, unspecified finger joints                 | Diagnosis     | ICD-10-CM |
| M21.25  | Flexion deformity, hip                                       | Diagnosis     | ICD-10-CM |
| M21.251 | Flexion deformity, right hip                                 | Diagnosis     | ICD-10-CM |
| M21.252 | Flexion deformity, left hip                                  | Diagnosis     | ICD-10-CM |
| M21.259 | Flexion deformity, unspecified hip                           | Diagnosis     | ICD-10-CM |
| M21.26  | Flexion deformity, knee                                      | Diagnosis     | ICD-10-CM |
| M21.261 | Flexion deformity, right knee                                | Diagnosis     | ICD-10-CM |
| M21.262 | Flexion deformity, left knee                                 | Diagnosis     | ICD-10-CM |
| M21.269 | Flexion deformity, unspecified knee                          | Diagnosis     | ICD-10-CM |
| M21.27  | Flexion deformity, ankle and toes                            | Diagnosis     | ICD-10-CM |
| M21.271 | Flexion deformity, right ankle and toes                      | Diagnosis     | ICD-10-CM |
| M21.272 | Flexion deformity, left ankle and toes                       | Diagnosis     | ICD-10-CM |
| M21.279 | Flexion deformity, unspecified ankle and toes                | Diagnosis     | ICD-10-CM |
| M21.3   | Wrist or foot drop (acquired)                                | Diagnosis     | ICD-10-CM |
| M21.33  | Wrist drop (acquired)  | Diagnosis     | ICD-10-CM |
| M21.331 | Wrist drop, right wrist                                      | Diagnosis     | ICD-10-CM |
| M21.332 | Wrist drop, left wrist                                       | Diagnosis     | ICD-10-CM |
| M21.339 | Wrist drop, unspecified wrist                                | Diagnosis     | ICD-10-CM |
| M21.37  | Foot drop (acquired)   | Diagnosis     | ICD-10-CM |
| M21.371 | Foot drop, right foot  | Diagnosis     | ICD-10-CM |
| M21.372 | Foot drop, left foot   | Diagnosis     | ICD-10-CM |
| M21.379 | Foot drop, unspecified foot                                  | Diagnosis     | ICD-10-CM |
| M21.4   | Flat foot [pes planus] (acquired)                            | Diagnosis     | ICD-10-CM |
| M21.40  | Flat foot [pes planus] (acquired), unspecified foot          | Diagnosis     | ICD-10-CM |
| M21.41  | Flat foot [pes planus] (acquired), right foot                | Diagnosis     | ICD-10-CM |
| M21.42  | Flat foot [pes planus] (acquired), left foot                 | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| M21.5   | Acquired clawhand, clubhand, clawfoot and clubfoot          | Diagnosis     | ICD-10-CM |
| M21.51  | Acquired clawhand   | Diagnosis     | ICD-10-CM |
| M21.511 | Acquired clawhand, right hand                               | Diagnosis     | ICD-10-CM |
| M21.512 | Acquired clawhand, left hand                                | Diagnosis     | ICD-10-CM |
| M21.519 | Acquired clawhand, unspecified hand                         | Diagnosis     | ICD-10-CM |
| M21.52  | Acquired clubhand   | Diagnosis     | ICD-10-CM |
| M21.521 | Acquired clubhand, right hand                               | Diagnosis     | ICD-10-CM |
| M21.522 | Acquired clubhand, left hand                                | Diagnosis     | ICD-10-CM |
| M21.529 | Acquired clubhand, unspecified hand                         | Diagnosis     | ICD-10-CM |
| M21.53  | Acquired clawfoot   | Diagnosis     | ICD-10-CM |
| M21.531 | Acquired clawfoot, right foot                               | Diagnosis     | ICD-10-CM |
| M21.532 | Acquired clawfoot, left foot                                | Diagnosis     | ICD-10-CM |
| M21.539 | Acquired clawfoot, unspecified foot                         | Diagnosis     | ICD-10-CM |
| M21.54  | Acquired clubfoot   | Diagnosis     | ICD-10-CM |
| M21.541 | Acquired clubfoot, right foot                               | Diagnosis     | ICD-10-CM |
| M21.542 | Acquired clubfoot, left foot                                | Diagnosis     | ICD-10-CM |
| M21.549 | Acquired clubfoot, unspecified foot                         | Diagnosis     | ICD-10-CM |
| M21.6   | Other acquired deformities of foot                          | Diagnosis     | ICD-10-CM |
| M21.61  | Bunion  | Diagnosis     | ICD-10-CM |
| M21.611 | Bunion of right foot  | Diagnosis     | ICD-10-CM |
| M21.612 | Bunion of left foot   | Diagnosis     | ICD-10-CM |
| M21.619 | Bunion of unspecified foot                                  | Diagnosis     | ICD-10-CM |
| M21.62  | Bunionette  | Diagnosis     | ICD-10-CM |
| M21.621 | Bunionette of right foot                                    | Diagnosis     | ICD-10-CM |
| M21.622 | Bunionette of left foot                                     | Diagnosis     | ICD-10-CM |
| M21.629 | Bunionette of unspecified foot                              | Diagnosis     | ICD-10-CM |
| M21.6X  | Other acquired deformities of foot                          | Diagnosis     | ICD-10-CM |
| M21.6X1 | Other acquired deformities of right foot                    | Diagnosis     | ICD-10-CM |
| M21.6X2 | Other acquired deformities of left foot                     | Diagnosis     | ICD-10-CM |
| M21.6X9 | Other acquired deformities of unspecified foot              | Diagnosis     | ICD-10-CM |
| M21.7   | Unequal limb length (acquired)                              | Diagnosis     | ICD-10-CM |
| M21.70  | Unequal limb length (acquired), unspecified site            | Diagnosis     | ICD-10-CM |
| M21.72  | Unequal limb length (acquired), humerus                     | Diagnosis     | ICD-10-CM |
| M21.721 | Unequal limb length (acquired), right humerus               | Diagnosis     | ICD-10-CM |
| M21.722 | Unequal limb length (acquired), left humerus                | Diagnosis     | ICD-10-CM |
| M21.729 | Unequal limb length (acquired), unspecified humerus         | Diagnosis     | ICD-10-CM |
| M21.73  | Unequal limb length (acquired), ulna and radius             | Diagnosis     | ICD-10-CM |
| M21.731 | Unequal limb length (acquired), right ulna                  | Diagnosis     | ICD-10-CM |
| M21.732 | Unequal limb length (acquired), left ulna                   | Diagnosis     | ICD-10-CM |
| M21.733 | Unequal limb length (acquired), right radius                | Diagnosis     | ICD-10-CM |
| M21.734 | Unequal limb length (acquired), left radius                 | Diagnosis     | ICD-10-CM |
| M21.739 | Unequal limb length (acquired), unspecified ulna and radius | Diagnosis     | ICD-10-CM |
| M21.75  | Unequal limb length (acquired), femur                       | Diagnosis     | ICD-10-CM |
| M21.751 | Unequal limb length (acquired), right femur                 | Diagnosis     | ICD-10-CM |
| M21.752 | Unequal limb length (acquired), left femur                  | Diagnosis     | ICD-10-CM |
| M21.759 | Unequal limb length (acquired), unspecified femur           | Diagnosis     | ICD-10-CM |
| M21.76  | Unequal limb length (acquired), tibia and fibula            | Diagnosis     | ICD-10-CM |
| M21.761 | Unequal limb length (acquired), right tibia                 | Diagnosis     | ICD-10-CM |
| M21.762 | Unequal limb length (acquired), left tibia                  | Diagnosis     | ICD-10-CM |
| M21.763 | Unequal limb length (acquired), right fibula                | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| M21.764 | Unequal limb length (acquired), left fibula                   | Diagnosis     | ICD-10-CM |
| M21.769 | Unequal limb length (acquired), unspecified tibia and fibula  | Diagnosis     | ICD-10-CM |
| M21.8   | Other specified acquired deformities of limbs                 | Diagnosis     | ICD-10-CM |
| M21.80  | Other specified acquired deformities of unspecified limb      | Diagnosis     | ICD-10-CM |
| M21.82  | Other specified acquired deformities of upper arm             | Diagnosis     | ICD-10-CM |
| M21.821 | Other specified acquired deformities of right upper arm       | Diagnosis     | ICD-10-CM |
| M21.822 | Other specified acquired deformities of left upper arm        | Diagnosis     | ICD-10-CM |
| M21.829 | Other specified acquired deformities of unspecified upper arm | Diagnosis     | ICD-10-CM |
| M21.83  | Other specified acquired deformities of forearm               | Diagnosis     | ICD-10-CM |
| M21.831 | Other specified acquired deformities of right forearm         | Diagnosis     | ICD-10-CM |
| M21.832 | Other specified acquired deformities of left forearm          | Diagnosis     | ICD-10-CM |
| M21.839 | Other specified acquired deformities of unspecified forearm   | Diagnosis     | ICD-10-CM |
| M21.85  | Other specified acquired deformities of thigh                 | Diagnosis     | ICD-10-CM |
| M21.851 | Other specified acquired deformities of right thigh           | Diagnosis     | ICD-10-CM |
| M21.852 | Other specified acquired deformities of left thigh            | Diagnosis     | ICD-10-CM |
| M21.859 | Other specified acquired deformities of unspecified thigh     | Diagnosis     | ICD-10-CM |
| M21.86  | Other specified acquired deformities of lower leg             | Diagnosis     | ICD-10-CM |
| M21.861 | Other specified acquired deformities of right lower leg       | Diagnosis     | ICD-10-CM |
| M21.862 | Other specified acquired deformities of left lower leg        | Diagnosis     | ICD-10-CM |
| M21.869 | Other specified acquired deformities of unspecified lower leg | Diagnosis     | ICD-10-CM |
| M21.9   | Unspecified acquired deformity of limb and hand               | Diagnosis     | ICD-10-CM |
| M21.90  | Unspecified acquired deformity of unspecified limb            | Diagnosis     | ICD-10-CM |
| M21.92  | Unspecified acquired deformity of upper arm                   | Diagnosis     | ICD-10-CM |
| M21.921 | Unspecified acquired deformity of right upper arm             | Diagnosis     | ICD-10-CM |
| M21.922 | Unspecified acquired deformity of left upper arm              | Diagnosis     | ICD-10-CM |
| M21.929 | Unspecified acquired deformity of unspecified upper arm       | Diagnosis     | ICD-10-CM |
| M21.93  | Unspecified acquired deformity of forearm                     | Diagnosis     | ICD-10-CM |
| M21.931 | Unspecified acquired deformity of right forearm               | Diagnosis     | ICD-10-CM |
| M21.932 | Unspecified acquired deformity of left forearm                | Diagnosis     | ICD-10-CM |
| M21.939 | Unspecified acquired deformity of unspecified forearm         | Diagnosis     | ICD-10-CM |
| M21.94  | Unspecified acquired deformity of hand                        | Diagnosis     | ICD-10-CM |
| M21.941 | Unspecified acquired deformity of hand, right hand            | Diagnosis     | ICD-10-CM |
| M21.942 | Unspecified acquired deformity of hand, left hand             | Diagnosis     | ICD-10-CM |
| M21.949 | Unspecified acquired deformity of hand, unspecified hand      | Diagnosis     | ICD-10-CM |
| M21.95  | Unspecified acquired deformity of thigh                       | Diagnosis     | ICD-10-CM |
| M21.951 | Unspecified acquired deformity of right thigh                 | Diagnosis     | ICD-10-CM |
| M21.952 | Unspecified acquired deformity of left thigh                  | Diagnosis     | ICD-10-CM |
| M21.959 | Unspecified acquired deformity of unspecified thigh           | Diagnosis     | ICD-10-CM |
| M21.96  | Unspecified acquired deformity of lower leg                   | Diagnosis     | ICD-10-CM |
| M21.961 | Unspecified acquired deformity of right lower leg             | Diagnosis     | ICD-10-CM |
| M21.962 | Unspecified acquired deformity of left lower leg              | Diagnosis     | ICD-10-CM |
| M21.969 | Unspecified acquired deformity of unspecified lower leg       | Diagnosis     | ICD-10-CM |
| M24.0   | Loose body in joint   | Diagnosis     | ICD-10-CM |
| M24.00  | Loose body in unspecified joint                               | Diagnosis     | ICD-10-CM |
| M24.01  | Loose body in shoulder  | Diagnosis     | ICD-10-CM |
| M24.011 | Loose body in right shoulder                                  | Diagnosis     | ICD-10-CM |
| M24.012 | Loose body in left shoulder                                   | Diagnosis     | ICD-10-CM |
| M24.019 | Loose body in unspecified shoulder                            | Diagnosis     | ICD-10-CM |
| M24.02  | Loose body in elbow   | Diagnosis     | ICD-10-CM |
| M24.021 | Loose body in right elbow                                     | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| M24.022 | Loose body in left elbow                                  | Diagnosis     | ICD-10-CM |
| M24.029 | Loose body in unspecified elbow                           | Diagnosis     | ICD-10-CM |
| M24.03  | Loose body in wrist                                       | Diagnosis     | ICD-10-CM |
| M24.031 | Loose body in right wrist                                 | Diagnosis     | ICD-10-CM |
| M24.032 | Loose body in left wrist                                  | Diagnosis     | ICD-10-CM |
| M24.039 | Loose body in unspecified wrist                           | Diagnosis     | ICD-10-CM |
| M24.04  | Loose body in finger joints                               | Diagnosis     | ICD-10-CM |
| M24.041 | Loose body in right finger joint(s)                       | Diagnosis     | ICD-10-CM |
| M24.042 | Loose body in left finger joint(s)                        | Diagnosis     | ICD-10-CM |
| M24.049 | Loose body in unspecified finger joint(s)                 | Diagnosis     | ICD-10-CM |
| M24.05  | Loose body in hip   | Diagnosis     | ICD-10-CM |
| M24.051 | Loose body in right hip                                   | Diagnosis     | ICD-10-CM |
| M24.052 | Loose body in left hip                                    | Diagnosis     | ICD-10-CM |
| M24.059 | Loose body in unspecified hip                             | Diagnosis     | ICD-10-CM |
| M24.07  | Loose body in ankle and toe joints                        | Diagnosis     | ICD-10-CM |
| M24.071 | Loose body in right ankle                                 | Diagnosis     | ICD-10-CM |
| M24.072 | Loose body in left ankle                                  | Diagnosis     | ICD-10-CM |
| M24.073 | Loose body in unspecified ankle                           | Diagnosis     | ICD-10-CM |
| M24.074 | Loose body in right toe joint(s)                          | Diagnosis     | ICD-10-CM |
| M24.075 | Loose body in left toe joint(s)                           | Diagnosis     | ICD-10-CM |
| M24.076 | Loose body in unspecified toe joints                      | Diagnosis     | ICD-10-CM |
| M24.08  | Loose body, other site                                    | Diagnosis     | ICD-10-CM |
| M24.1   | Other articular cartilage disorders                       | Diagnosis     | ICD-10-CM |
| M24.10  | Other articular cartilage disorders, unspecified site     | Diagnosis     | ICD-10-CM |
| M24.11  | Other articular cartilage disorders, shoulder             | Diagnosis     | ICD-10-CM |
| M24.111 | Other articular cartilage disorders, right shoulder       | Diagnosis     | ICD-10-CM |
| M24.112 | Other articular cartilage disorders, left shoulder        | Diagnosis     | ICD-10-CM |
| M24.119 | Other articular cartilage disorders, unspecified shoulder | Diagnosis     | ICD-10-CM |
| M24.12  | Other articular cartilage disorders, elbow                | Diagnosis     | ICD-10-CM |
| M24.121 | Other articular cartilage disorders, right elbow          | Diagnosis     | ICD-10-CM |
| M24.122 | Other articular cartilage disorders, left elbow           | Diagnosis     | ICD-10-CM |
| M24.129 | Other articular cartilage disorders, unspecified elbow    | Diagnosis     | ICD-10-CM |
| M24.13  | Other articular cartilage disorders, wrist                | Diagnosis     | ICD-10-CM |
| M24.131 | Other articular cartilage disorders, right wrist          | Diagnosis     | ICD-10-CM |
| M24.132 | Other articular cartilage disorders, left wrist           | Diagnosis     | ICD-10-CM |
| M24.139 | Other articular cartilage disorders, unspecified wrist    | Diagnosis     | ICD-10-CM |
| M24.14  | Other articular cartilage disorders, hand                 | Diagnosis     | ICD-10-CM |
| M24.141 | Other articular cartilage disorders, right hand           | Diagnosis     | ICD-10-CM |
| M24.142 | Other articular cartilage disorders, left hand            | Diagnosis     | ICD-10-CM |
| M24.149 | Other articular cartilage disorders, unspecified hand     | Diagnosis     | ICD-10-CM |
| M24.15  | Other articular cartilage disorders, hip                  | Diagnosis     | ICD-10-CM |
| M24.151 | Other articular cartilage disorders, right hip            | Diagnosis     | ICD-10-CM |
| M24.152 | Other articular cartilage disorders, left hip             | Diagnosis     | ICD-10-CM |
| M24.159 | Other articular cartilage disorders, unspecified hip      | Diagnosis     | ICD-10-CM |
| M24.17  | Other articular cartilage disorders, ankle and foot       | Diagnosis     | ICD-10-CM |
| M24.171 | Other articular cartilage disorders, right ankle          | Diagnosis     | ICD-10-CM |
| M24.172 | Other articular cartilage disorders, left ankle           | Diagnosis     | ICD-10-CM |
| M24.173 | Other articular cartilage disorders, unspecified ankle    | Diagnosis     | ICD-10-CM |
| M24.174 | Other articular cartilage disorders, right foot           | Diagnosis     | ICD-10-CM |
| M24.175 | Other articular cartilage disorders, left foot            | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| M24.176 | Other articular cartilage disorders, unspecified foot                      | Diagnosis     | ICD-10-CM |
| M24.19  | Other articular cartilage disorders, other specified site                  | Diagnosis     | ICD-10-CM |
| M24.2   | Disorder of ligament   | Diagnosis     | ICD-10-CM |
| M24.20  | Disorder of ligament, unspecified site                                     | Diagnosis     | ICD-10-CM |
| M24.21  | Disorder of ligament, shoulder   | Diagnosis     | ICD-10-CM |
| M24.211 | Disorder of ligament, right shoulder                                       | Diagnosis     | ICD-10-CM |
| M24.212 | Disorder of ligament, left shoulder  | Diagnosis     | ICD-10-CM |
| M24.219 | Disorder of ligament, unspecified shoulder                                 | Diagnosis     | ICD-10-CM |
| M24.22  | Disorder of ligament, elbow  | Diagnosis     | ICD-10-CM |
| M24.221 | Disorder of ligament, right elbow  | Diagnosis     | ICD-10-CM |
| M24.222 | Disorder of ligament, left elbow   | Diagnosis     | ICD-10-CM |
| M24.229 | Disorder of ligament, unspecified elbow                                    | Diagnosis     | ICD-10-CM |
| M24.23  | Disorder of ligament, wrist  | Diagnosis     | ICD-10-CM |
| M24.231 | Disorder of ligament, right wrist  | Diagnosis     | ICD-10-CM |
| M24.232 | Disorder of ligament, left wrist   | Diagnosis     | ICD-10-CM |
| M24.239 | Disorder of ligament, unspecified wrist                                    | Diagnosis     | ICD-10-CM |
| M24.24  | Disorder of ligament, hand   | Diagnosis     | ICD-10-CM |
| M24.241 | Disorder of ligament, right hand   | Diagnosis     | ICD-10-CM |
| M24.242 | Disorder of ligament, left hand  | Diagnosis     | ICD-10-CM |
| M24.249 | Disorder of ligament, unspecified hand                                     | Diagnosis     | ICD-10-CM |
| M24.25  | Disorder of ligament, hip  | Diagnosis     | ICD-10-CM |
| M24.251 | Disorder of ligament, right hip  | Diagnosis     | ICD-10-CM |
| M24.252 | Disorder of ligament, left hip   | Diagnosis     | ICD-10-CM |
| M24.259 | Disorder of ligament, unspecified hip                                      | Diagnosis     | ICD-10-CM |
| M24.27  | Disorder of ligament, ankle and foot                                       | Diagnosis     | ICD-10-CM |
| M24.271 | Disorder of ligament, right ankle  | Diagnosis     | ICD-10-CM |
| M24.272 | Disorder of ligament, left ankle   | Diagnosis     | ICD-10-CM |
| M24.273 | Disorder of ligament, unspecified ankle                                    | Diagnosis     | ICD-10-CM |
| M24.274 | Disorder of ligament, right foot   | Diagnosis     | ICD-10-CM |
| M24.275 | Disorder of ligament, left foot  | Diagnosis     | ICD-10-CM |
| M24.276 | Disorder of ligament, unspecified foot                                     | Diagnosis     | ICD-10-CM |
| M24.28  | Disorder of ligament, vertebrae  | Diagnosis     | ICD-10-CM |
| M24.29  | Disorder of ligament, other specified site                                 | Diagnosis     | ICD-10-CM |
| M24.3   | Pathological dislocation of joint, not elsewhere classified                | Diagnosis     | ICD-10-CM |
| M24.30  | Pathological dislocation of unspecified joint, not elsewhere classified    | Diagnosis     | ICD-10-CM |
| M24.31  | Pathological dislocation of shoulder, not elsewhere classified             | Diagnosis     | ICD-10-CM |
| M24.311 | Pathological dislocation of right shoulder, not elsewhere classified       | Diagnosis     | ICD-10-CM |
| M24.312 | Pathological dislocation of left shoulder, not elsewhere classified        | Diagnosis     | ICD-10-CM |
| M24.319 | Pathological dislocation of unspecified shoulder, not elsewhere classified | Diagnosis     | ICD-10-CM |
| M24.32  | Pathological dislocation of elbow, not elsewhere classified                | Diagnosis     | ICD-10-CM |
| M24.321 | Pathological dislocation of right elbow, not elsewhere classified          | Diagnosis     | ICD-10-CM |
| M24.322 | Pathological dislocation of left elbow, not elsewhere classified           | Diagnosis     | ICD-10-CM |
| M24.329 | Pathological dislocation of unspecified elbow, not elsewhere classified    | Diagnosis     | ICD-10-CM |
| M24.33  | Pathological dislocation of wrist, not elsewhere classified                | Diagnosis     | ICD-10-CM |
| M24.331 | Pathological dislocation of right wrist, not elsewhere classified          | Diagnosis     | ICD-10-CM |
| M24.332 | Pathological dislocation of left wrist, not elsewhere classified           | Diagnosis     | ICD-10-CM |
| M24.339 | Pathological dislocation of unspecified wrist, not elsewhere classified    | Diagnosis     | ICD-10-CM |
| M24.34  | Pathological dislocation of hand, not elsewhere classified                 | Diagnosis     | ICD-10-CM |
| M24.341 | Pathological dislocation of right hand, not elsewhere classified           | Diagnosis     | ICD-10-CM |
| M24.342 | Pathological dislocation of left hand, not elsewhere classified            | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| M24.349 | Pathological dislocation of unspecified hand, not elsewhere classified      | Diagnosis     | ICD-10-CM |
| M24.35  | Pathological dislocation of hip, not elsewhere classified                   | Diagnosis     | ICD-10-CM |
| M24.351 | Pathological dislocation of right hip, not elsewhere classified             | Diagnosis     | ICD-10-CM |
| M24.352 | Pathological dislocation of left hip, not elsewhere classified              | Diagnosis     | ICD-10-CM |
| M24.359 | Pathological dislocation of unspecified hip, not elsewhere classified       | Diagnosis     | ICD-10-CM |
| M24.36  | Pathological dislocation of knee, not elsewhere classified                  | Diagnosis     | ICD-10-CM |
| M24.361 | Pathological dislocation of right knee, not elsewhere classified            | Diagnosis     | ICD-10-CM |
| M24.362 | Pathological dislocation of left knee, not elsewhere classified             | Diagnosis     | ICD-10-CM |
| M24.369 | Pathological dislocation of unspecified knee, not elsewhere classified      | Diagnosis     | ICD-10-CM |
| M24.37  | Pathological dislocation of ankle and foot, not elsewhere classified        | Diagnosis     | ICD-10-CM |
| M24.371 | Pathological dislocation of right ankle, not elsewhere classified           | Diagnosis     | ICD-10-CM |
| M24.372 | Pathological dislocation of left ankle, not elsewhere classified            | Diagnosis     | ICD-10-CM |
| M24.373 | Pathological dislocation of unspecified ankle, not elsewhere classified     | Diagnosis     | ICD-10-CM |
| M24.374 | Pathological dislocation of right foot, not elsewhere classified            | Diagnosis     | ICD-10-CM |
| M24.375 | Pathological dislocation of left foot, not elsewhere classified             | Diagnosis     | ICD-10-CM |
| M24.376 | Pathological dislocation of unspecified foot, not elsewhere classified      | Diagnosis     | ICD-10-CM |
| M24.39  | Pathological dislocation of other specified joint, not elsewhere classified | Diagnosis     | ICD-10-CM |
| M24.4   | Recurrent dislocation of joint  | Diagnosis     | ICD-10-CM |
| M24.40  | Recurrent dislocation, unspecified joint                                    | Diagnosis     | ICD-10-CM |
| M24.41  | Recurrent dislocation, shoulder   | Diagnosis     | ICD-10-CM |
| M24.411 | Recurrent dislocation, right shoulder                                       | Diagnosis     | ICD-10-CM |
| M24.412 | Recurrent dislocation, left shoulder  | Diagnosis     | ICD-10-CM |
| M24.419 | Recurrent dislocation, unspecified shoulder                                 | Diagnosis     | ICD-10-CM |
| M24.42  | Recurrent dislocation, elbow  | Diagnosis     | ICD-10-CM |
| M24.421 | Recurrent dislocation, right elbow  | Diagnosis     | ICD-10-CM |
| M24.422 | Recurrent dislocation, left elbow   | Diagnosis     | ICD-10-CM |
| M24.429 | Recurrent dislocation, unspecified elbow                                    | Diagnosis     | ICD-10-CM |
| M24.43  | Recurrent dislocation, wrist  | Diagnosis     | ICD-10-CM |
| M24.431 | Recurrent dislocation, right wrist  | Diagnosis     | ICD-10-CM |
| M24.432 | Recurrent dislocation, left wrist   | Diagnosis     | ICD-10-CM |
| M24.439 | Recurrent dislocation, unspecified wrist                                    | Diagnosis     | ICD-10-CM |
| M24.44  | Recurrent dislocation, hand and finger(s)                                   | Diagnosis     | ICD-10-CM |
| M24.441 | Recurrent dislocation, right hand   | Diagnosis     | ICD-10-CM |
| M24.442 | Recurrent dislocation, left hand  | Diagnosis     | ICD-10-CM |
| M24.443 | Recurrent dislocation, unspecified hand                                     | Diagnosis     | ICD-10-CM |
| M24.444 | Recurrent dislocation, right finger   | Diagnosis     | ICD-10-CM |
| M24.445 | Recurrent dislocation, left finger  | Diagnosis     | ICD-10-CM |
| M24.446 | Recurrent dislocation, unspecified finger                                   | Diagnosis     | ICD-10-CM |
| M24.45  | Recurrent dislocation, hip  | Diagnosis     | ICD-10-CM |
| M24.451 | Recurrent dislocation, right hip  | Diagnosis     | ICD-10-CM |
| M24.452 | Recurrent dislocation, left hip   | Diagnosis     | ICD-10-CM |
| M24.459 | Recurrent dislocation, unspecified hip                                      | Diagnosis     | ICD-10-CM |
| M24.46  | Recurrent dislocation, knee   | Diagnosis     | ICD-10-CM |
| M24.461 | Recurrent dislocation, right knee   | Diagnosis     | ICD-10-CM |
| M24.462 | Recurrent dislocation, left knee  | Diagnosis     | ICD-10-CM |
| M24.469 | Recurrent dislocation, unspecified knee                                     | Diagnosis     | ICD-10-CM |
| M24.47  | Recurrent dislocation, ankle, foot and toes                                 | Diagnosis     | ICD-10-CM |
| M24.471 | Recurrent dislocation, right ankle  | Diagnosis     | ICD-10-CM |
| M24.472 | Recurrent dislocation, left ankle   | Diagnosis     | ICD-10-CM |
| M24.473 | Recurrent dislocation, unspecified ankle                                    | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description                                  | Code Category | Code Type |
|---------|--|---------------|-----------|
| M24.474 | Recurrent dislocation, right foot            | Diagnosis     | ICD-10-CM |
| M24.475 | Recurrent dislocation, left foot             | Diagnosis     | ICD-10-CM |
| M24.476 | Recurrent dislocation, unspecified foot      | Diagnosis     | ICD-10-CM |
| M24.477 | Recurrent dislocation, right toe(s)          | Diagnosis     | ICD-10-CM |
| M24.478 | Recurrent dislocation, left toe(s)           | Diagnosis     | ICD-10-CM |
| M24.479 | Recurrent dislocation, unspecified toe(s)    | Diagnosis     | ICD-10-CM |
| M24.49  | Recurrent dislocation, other specified joint | Diagnosis     | ICD-10-CM |
| M24.5   | Contracture of joint                         | Diagnosis     | ICD-10-CM |
| M24.50  | Contracture, unspecified joint               | Diagnosis     | ICD-10-CM |
| M24.51  | Contracture, shoulder                        | Diagnosis     | ICD-10-CM |
| M24.511 | Contracture, right shoulder                  | Diagnosis     | ICD-10-CM |
| M24.512 | Contracture, left shoulder                   | Diagnosis     | ICD-10-CM |
| M24.519 | Contracture, unspecified shoulder            | Diagnosis     | ICD-10-CM |
| M24.52  | Contracture, elbow                           | Diagnosis     | ICD-10-CM |
| M24.521 | Contracture, right elbow                     | Diagnosis     | ICD-10-CM |
| M24.522 | Contracture, left elbow                      | Diagnosis     | ICD-10-CM |
| M24.529 | Contracture, unspecified elbow               | Diagnosis     | ICD-10-CM |
| M24.53  | Contracture, wrist                           | Diagnosis     | ICD-10-CM |
| M24.531 | Contracture, right wrist                     | Diagnosis     | ICD-10-CM |
| M24.532 | Contracture, left wrist                      | Diagnosis     | ICD-10-CM |
| M24.539 | Contracture, unspecified wrist               | Diagnosis     | ICD-10-CM |
| M24.54  | Contracture, hand                            | Diagnosis     | ICD-10-CM |
| M24.541 | Contracture, right hand                      | Diagnosis     | ICD-10-CM |
| M24.542 | Contracture, left hand                       | Diagnosis     | ICD-10-CM |
| M24.549 | Contracture, unspecified hand                | Diagnosis     | ICD-10-CM |
| M24.55  | Contracture, hip                             | Diagnosis     | ICD-10-CM |
| M24.551 | Contracture, right hip                       | Diagnosis     | ICD-10-CM |
| M24.552 | Contracture, left hip                        | Diagnosis     | ICD-10-CM |
| M24.559 | Contracture, unspecified hip                 | Diagnosis     | ICD-10-CM |
| M24.56  | Contracture, knee                            | Diagnosis     | ICD-10-CM |
| M24.561 | Contracture, right knee                      | Diagnosis     | ICD-10-CM |
| M24.562 | Contracture, left knee                       | Diagnosis     | ICD-10-CM |
| M24.569 | Contracture, unspecified knee                | Diagnosis     | ICD-10-CM |
| M24.57  | Contracture, ankle and foot                  | Diagnosis     | ICD-10-CM |
| M24.571 | Contracture, right ankle                     | Diagnosis     | ICD-10-CM |
| M24.572 | Contracture, left ankle                      | Diagnosis     | ICD-10-CM |
| M24.573 | Contracture, unspecified ankle               | Diagnosis     | ICD-10-CM |
| M24.574 | Contracture, right foot                      | Diagnosis     | ICD-10-CM |
| M24.575 | Contracture, left foot                       | Diagnosis     | ICD-10-CM |
| M24.576 | Contracture, unspecified foot                | Diagnosis     | ICD-10-CM |
| M24.59  | Contracture, other specified joint           | Diagnosis     | ICD-10-CM |
| M24.6   | Ankylosis of joint                           | Diagnosis     | ICD-10-CM |
| M24.60  | Ankylosis, unspecified joint                 | Diagnosis     | ICD-10-CM |
| M24.61  | Ankylosis, shoulder                          | Diagnosis     | ICD-10-CM |
| M24.611 | Ankylosis, right shoulder                    | Diagnosis     | ICD-10-CM |
| M24.612 | Ankylosis, left shoulder                     | Diagnosis     | ICD-10-CM |
| M24.619 | Ankylosis, unspecified shoulder              | Diagnosis     | ICD-10-CM |
| M24.62  | Ankylosis, elbow                             | Diagnosis     | ICD-10-CM |
| M24.621 | Ankylosis, right elbow                       | Diagnosis     | ICD-10-CM |
| M24.622 | Ankylosis, left elbow                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| M24.629 | Ankylosis, unspecified elbow  | Diagnosis     | ICD-10-CM |
| M24.63  | Ankylosis, wrist  | Diagnosis     | ICD-10-CM |
| M24.631 | Ankylosis, right wrist  | Diagnosis     | ICD-10-CM |
| M24.632 | Ankylosis, left wrist   | Diagnosis     | ICD-10-CM |
| M24.639 | Ankylosis, unspecified wrist  | Diagnosis     | ICD-10-CM |
| M24.64  | Ankylosis, hand   | Diagnosis     | ICD-10-CM |
| M24.641 | Ankylosis, right hand   | Diagnosis     | ICD-10-CM |
| M24.642 | Ankylosis, left hand  | Diagnosis     | ICD-10-CM |
| M24.649 | Ankylosis, unspecified hand   | Diagnosis     | ICD-10-CM |
| M24.65  | Ankylosis, hip  | Diagnosis     | ICD-10-CM |
| M24.651 | Ankylosis, right hip  | Diagnosis     | ICD-10-CM |
| M24.652 | Ankylosis, left hip   | Diagnosis     | ICD-10-CM |
| M24.659 | Ankylosis, unspecified hip  | Diagnosis     | ICD-10-CM |
| M24.66  | Ankylosis, knee   | Diagnosis     | ICD-10-CM |
| M24.661 | Ankylosis, right knee   | Diagnosis     | ICD-10-CM |
| M24.662 | Ankylosis, left knee  | Diagnosis     | ICD-10-CM |
| M24.669 | Ankylosis, unspecified knee   | Diagnosis     | ICD-10-CM |
| M24.67  | Ankylosis, ankle and foot   | Diagnosis     | ICD-10-CM |
| M24.671 | Ankylosis, right ankle  | Diagnosis     | ICD-10-CM |
| M24.672 | Ankylosis, left ankle   | Diagnosis     | ICD-10-CM |
| M24.673 | Ankylosis, unspecified ankle  | Diagnosis     | ICD-10-CM |
| M24.674 | Ankylosis, right foot   | Diagnosis     | ICD-10-CM |
| M24.675 | Ankylosis, left foot  | Diagnosis     | ICD-10-CM |
| M24.676 | Ankylosis, unspecified foot   | Diagnosis     | ICD-10-CM |
| M24.69  | Ankylosis, other specified joint  | Diagnosis     | ICD-10-CM |
| M24.7   | Protrusio acetabuli   | Diagnosis     | ICD-10-CM |
| M24.8   | Other specific joint derangements, not elsewhere classified                         | Diagnosis     | ICD-10-CM |
| M24.80  | Other specific joint derangements of unspecified joint, not elsewhere classified    | Diagnosis     | ICD-10-CM |
| M24.81  | Other specific joint derangements of shoulder, not elsewhere classified             | Diagnosis     | ICD-10-CM |
| M24.811 | Other specific joint derangements of right shoulder, not elsewhere classified       | Diagnosis     | ICD-10-CM |
| M24.812 | Other specific joint derangements of left shoulder, not elsewhere classified        | Diagnosis     | ICD-10-CM |
| M24.819 | Other specific joint derangements of unspecified shoulder, not elsewhere classified | Diagnosis     | ICD-10-CM |
| M24.82  | Other specific joint derangements of elbow, not elsewhere classified                | Diagnosis     | ICD-10-CM |
| M24.821 | Other specific joint derangements of right elbow, not elsewhere classified          | Diagnosis     | ICD-10-CM |
| M24.822 | Other specific joint derangements of left elbow, not elsewhere classified           | Diagnosis     | ICD-10-CM |
| M24.829 | Other specific joint derangements of unspecified elbow, not elsewhere classified    | Diagnosis     | ICD-10-CM |
| M24.83  | Other specific joint derangements of wrist, not elsewhere classified                | Diagnosis     | ICD-10-CM |
| M24.831 | Other specific joint derangements of right wrist, not elsewhere classified          | Diagnosis     | ICD-10-CM |
| M24.832 | Other specific joint derangements of left wrist, not elsewhere classified           | Diagnosis     | ICD-10-CM |
| M24.839 | Other specific joint derangements of unspecified wrist, not elsewhere classified    | Diagnosis     | ICD-10-CM |
| M24.84  | Other specific joint derangements of hand, not elsewhere classified                 | Diagnosis     | ICD-10-CM |
| M24.841 | Other specific joint derangements of right hand, not elsewhere classified           | Diagnosis     | ICD-10-CM |
| M24.842 | Other specific joint derangements of left hand, not elsewhere classified            | Diagnosis     | ICD-10-CM |
| M24.849 | Other specific joint derangements of unspecified hand, not elsewhere classified     | Diagnosis     | ICD-10-CM |
| M24.85  | Other specific joint derangements of hip, not elsewhere classified                  | Diagnosis     | ICD-10-CM |
| M24.851 | Other specific joint derangements of right hip, not elsewhere classified            | Diagnosis     | ICD-10-CM |
| M24.852 | Other specific joint derangements of left hip, not elsewhere classified             | Diagnosis     | ICD-10-CM |
| M24.859 | Other specific joint derangements of unspecified hip, not elsewhere classified      | Diagnosis     | ICD-10-CM |
| M24.87  | Other specific joint derangements of ankle and foot, not elsewhere classified       | Diagnosis     | ICD-10-CM |
| M24.871 | Other specific joint derangements of right ankle, not elsewhere classified          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code                        | Description   | Code Category | Code Type |
|-----------------------------|---|---------------|-----------|
| M24.872                     | Other specific joint derangements of left ankle, not elsewhere classified                         | Diagnosis     | ICD-10-CM |
| M24.873                     | Other specific joint derangements of unspecified ankle, not elsewhere classified                  | Diagnosis     | ICD-10-CM |
| M24.874                     | Other specific joint derangements of right foot, not elsewhere classified                         | Diagnosis     | ICD-10-CM |
| M24.875                     | Other specific joint derangements left foot, not elsewhere classified                             | Diagnosis     | ICD-10-CM |
| M24.876                     | Other specific joint derangements of unspecified foot, not elsewhere classified                   | Diagnosis     | ICD-10-CM |
| M24.89                      | Other specific joint derangement of other specified joint, not elsewhere classified               | Diagnosis     | ICD-10-CM |
| M24.9                       | Joint derangement, unspecified  | Diagnosis     | ICD-10-CM |
| <b>Menstrual disorders</b>  |   |               |           |
| N91.0                       | Primary amenorrhea  | Diagnosis     | ICD-10-CM |
| N91.1                       | Secondary amenorrhea  | Diagnosis     | ICD-10-CM |
| N91.2                       | Amenorrhea, unspecified   | Diagnosis     | ICD-10-CM |
| N91.3                       | Primary oligomenorrhea  | Diagnosis     | ICD-10-CM |
| N91.4                       | Secondary oligomenorrhea  | Diagnosis     | ICD-10-CM |
| N91.5                       | Oligomenorrhea, unspecified   | Diagnosis     | ICD-10-CM |
| N92.0                       | Excessive and frequent menstruation with regular cycle  | Diagnosis     | ICD-10-CM |
| N92.1                       | Excessive and frequent menstruation with irregular cycle  | Diagnosis     | ICD-10-CM |
| N92.2                       | Excessive menstruation at puberty   | Diagnosis     | ICD-10-CM |
| N92.3                       | Ovulation bleeding  | Diagnosis     | ICD-10-CM |
| N92.4                       | Excessive bleeding in the premenopausal period  | Diagnosis     | ICD-10-CM |
| N92.5                       | Other specified irregular menstruation  | Diagnosis     | ICD-10-CM |
| N92.6                       | Irregular menstruation, unspecified   | Diagnosis     | ICD-10-CM |
| <b>Migraine or headache</b> |   |               |           |
| G43                         | Migraine  | Diagnosis     | ICD-10-CM |
| G43.0                       | Migraine without aura   | Diagnosis     | ICD-10-CM |
| G43.00                      | Migraine without aura, not intractable  | Diagnosis     | ICD-10-CM |
| G43.001                     | Migraine without aura, not intractable, with status migrainosus                                   | Diagnosis     | ICD-10-CM |
| G43.009                     | Migraine without aura, not intractable, without status migrainosus                                | Diagnosis     | ICD-10-CM |
| G43.01                      | Migraine without aura, intractable  | Diagnosis     | ICD-10-CM |
| G43.011                     | Migraine without aura, intractable, with status migrainosus                                       | Diagnosis     | ICD-10-CM |
| G43.019                     | Migraine without aura, intractable, without status migrainosus                                    | Diagnosis     | ICD-10-CM |
| G43.1                       | Migraine with aura  | Diagnosis     | ICD-10-CM |
| G43.10                      | Migraine with aura, not intractable   | Diagnosis     | ICD-10-CM |
| G43.101                     | Migraine with aura, not intractable, with status migrainosus                                      | Diagnosis     | ICD-10-CM |
| G43.109                     | Migraine with aura, not intractable, without status migrainosus                                   | Diagnosis     | ICD-10-CM |
| G43.11                      | Migraine with aura, intractable   | Diagnosis     | ICD-10-CM |
| G43.111                     | Migraine with aura, intractable, with status migrainosus  | Diagnosis     | ICD-10-CM |
| G43.119                     | Migraine with aura, intractable, without status migrainosus                                       | Diagnosis     | ICD-10-CM |
| G43.4                       | Hemiplegic migraine   | Diagnosis     | ICD-10-CM |
| G43.40                      | Hemiplegic migraine, not intractable  | Diagnosis     | ICD-10-CM |
| G43.401                     | Hemiplegic migraine, not intractable, with status migrainosus                                     | Diagnosis     | ICD-10-CM |
| G43.409                     | Hemiplegic migraine, not intractable, without status migrainosus                                  | Diagnosis     | ICD-10-CM |
| G43.41                      | Hemiplegic migraine, intractable  | Diagnosis     | ICD-10-CM |
| G43.411                     | Hemiplegic migraine, intractable, with status migrainosus   | Diagnosis     | ICD-10-CM |
| G43.419                     | Hemiplegic migraine, intractable, without status migrainosus                                      | Diagnosis     | ICD-10-CM |
| G43.5                       | Persistent migraine aura without cerebral infarction  | Diagnosis     | ICD-10-CM |
| G43.50                      | Persistent migraine aura without cerebral infarction, not intractable                             | Diagnosis     | ICD-10-CM |
| G43.501                     | Persistent migraine aura without cerebral infarction, not intractable, with status migrainosus    | Diagnosis     | ICD-10-CM |
| G43.509                     | Persistent migraine aura without cerebral infarction, not intractable, without status migrainosus | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| G43.51  | Persistent migraine aura without cerebral infarction, intractable                              | Diagnosis     | ICD-10-CM |
| G43.511 | Persistent migraine aura without cerebral infarction, intractable, with status migrainosus     | Diagnosis     | ICD-10-CM |
| G43.519 | Persistent migraine aura without cerebral infarction, intractable, without status migrainosus  | Diagnosis     | ICD-10-CM |
| G43.6   | Persistent migraine aura with cerebral infarction  | Diagnosis     | ICD-10-CM |
| G43.60  | Persistent migraine aura with cerebral infarction, not intractable                             | Diagnosis     | ICD-10-CM |
| G43.601 | Persistent migraine aura with cerebral infarction, not intractable, with status migrainosus    | Diagnosis     | ICD-10-CM |
| G43.609 | Persistent migraine aura with cerebral infarction, not intractable, without status migrainosus | Diagnosis     | ICD-10-CM |
| G43.61  | Persistent migraine aura with cerebral infarction, intractable                                 | Diagnosis     | ICD-10-CM |
| G43.611 | Persistent migraine aura with cerebral infarction, intractable, with status migrainosus        | Diagnosis     | ICD-10-CM |
| G43.619 | Persistent migraine aura with cerebral infarction, intractable, without status migrainosus     | Diagnosis     | ICD-10-CM |
| G43.7   | Chronic migraine without aura  | Diagnosis     | ICD-10-CM |
| G43.70  | Chronic migraine without aura, not intractable   | Diagnosis     | ICD-10-CM |
| G43.701 | Chronic migraine without aura, not intractable, with status migrainosus                        | Diagnosis     | ICD-10-CM |
| G43.709 | Chronic migraine without aura, not intractable, without status migrainosus                     | Diagnosis     | ICD-10-CM |
| G43.71  | Chronic migraine without aura, intractable   | Diagnosis     | ICD-10-CM |
| G43.711 | Chronic migraine without aura, intractable, with status migrainosus                            | Diagnosis     | ICD-10-CM |
| G43.719 | Chronic migraine without aura, intractable, without status migrainosus                         | Diagnosis     | ICD-10-CM |
| G43.8   | Other migraine   | Diagnosis     | ICD-10-CM |
| G43.80  | Other migraine, not intractable  | Diagnosis     | ICD-10-CM |
| G43.801 | Other migraine, not intractable, with status migrainosus                                       | Diagnosis     | ICD-10-CM |
| G43.809 | Other migraine, not intractable, without status migrainosus                                    | Diagnosis     | ICD-10-CM |
| G43.81  | Other migraine, intractable  | Diagnosis     | ICD-10-CM |
| G43.811 | Other migraine, intractable, with status migrainosus   | Diagnosis     | ICD-10-CM |
| G43.819 | Other migraine, intractable, without status migrainosus  | Diagnosis     | ICD-10-CM |
| G43.82  | Menstrual migraine, not intractable  | Diagnosis     | ICD-10-CM |
| G43.821 | Menstrual migraine, not intractable, with status migrainosus                                   | Diagnosis     | ICD-10-CM |
| G43.829 | Menstrual migraine, not intractable, without status migrainosus                                | Diagnosis     | ICD-10-CM |
| G43.83  | Menstrual migraine, intractable  | Diagnosis     | ICD-10-CM |
| G43.831 | Menstrual migraine, intractable, with status migrainosus                                       | Diagnosis     | ICD-10-CM |
| G43.839 | Menstrual migraine, intractable, without status migrainosus                                    | Diagnosis     | ICD-10-CM |
| G43.9   | Migraine, unspecified  | Diagnosis     | ICD-10-CM |
| G43.90  | Migraine, unspecified, not intractable   | Diagnosis     | ICD-10-CM |
| G43.901 | Migraine, unspecified, not intractable, with status migrainosus                                | Diagnosis     | ICD-10-CM |
| G43.909 | Migraine, unspecified, not intractable, without status migrainosus                             | Diagnosis     | ICD-10-CM |
| G43.91  | Migraine, unspecified, intractable   | Diagnosis     | ICD-10-CM |
| G43.911 | Migraine, unspecified, intractable, with status migrainosus                                    | Diagnosis     | ICD-10-CM |
| G43.919 | Migraine, unspecified, intractable, without status migrainosus                                 | Diagnosis     | ICD-10-CM |
| G43.A   | Cyclical vomiting  | Diagnosis     | ICD-10-CM |
| G43.A0  | Cyclical vomiting, in migraine, not intractable  | Diagnosis     | ICD-10-CM |
| G43.A1  | Cyclical vomiting, in migraine, intractable  | Diagnosis     | ICD-10-CM |
| G43.B   | Ophthalmoplegic migraine   | Diagnosis     | ICD-10-CM |
| G43.B0  | Ophthalmoplegic migraine, not intractable  | Diagnosis     | ICD-10-CM |
| G43.B1  | Ophthalmoplegic migraine, intractable  | Diagnosis     | ICD-10-CM |
| G43.C   | Periodic headache syndromes in child or adult  | Diagnosis     | ICD-10-CM |
| G43.C0  | Periodic headache syndromes in child or adult, not intractable                                 | Diagnosis     | ICD-10-CM |
| G43.C1  | Periodic headache syndromes in child or adult, intractable                                     | Diagnosis     | ICD-10-CM |
| G43.D   | Abdominal migraine   | Diagnosis     | ICD-10-CM |
| G43.D0  | Abdominal migraine, not intractable  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| G43.D1  | Abdominal migraine, intractable   | Diagnosis     | ICD-10-CM |
| G43.E   | Chronic migraine with aura  | Diagnosis     | ICD-10-CM |
| G43.E0  | Chronic migraine with aura, not intractable   | Diagnosis     | ICD-10-CM |
| G43.E01 | Chronic migraine with aura, not intractable, with status migrainosus  | Diagnosis     | ICD-10-CM |
| G43.E09 | Chronic migraine with aura, not intractable, without status migrainosus   | Diagnosis     | ICD-10-CM |
| G43.E1  | Chronic migraine with aura, intractable   | Diagnosis     | ICD-10-CM |
| G43.E11 | Chronic migraine with aura, intractable, with status migrainosus  | Diagnosis     | ICD-10-CM |
| G43.E19 | Chronic migraine with aura, intractable, without status migrainosus   | Diagnosis     | ICD-10-CM |
| G44     | Other headache syndromes  | Diagnosis     | ICD-10-CM |
| G44.0   | Cluster headaches and other trigeminal autonomic cephalgias (TAC)   | Diagnosis     | ICD-10-CM |
| G44.00  | Cluster headache syndrome, unspecified  | Diagnosis     | ICD-10-CM |
| G44.001 | Cluster headache syndrome, unspecified, intractable   | Diagnosis     | ICD-10-CM |
| G44.009 | Cluster headache syndrome, unspecified, not intractable   | Diagnosis     | ICD-10-CM |
| G44.01  | Episodic cluster headache   | Diagnosis     | ICD-10-CM |
| G44.011 | Episodic cluster headache, intractable  | Diagnosis     | ICD-10-CM |
| G44.019 | Episodic cluster headache, not intractable  | Diagnosis     | ICD-10-CM |
| G44.02  | Chronic cluster headache  | Diagnosis     | ICD-10-CM |
| G44.021 | Chronic cluster headache, intractable   | Diagnosis     | ICD-10-CM |
| G44.029 | Chronic cluster headache, not intractable   | Diagnosis     | ICD-10-CM |
| G44.03  | Episodic paroxysmal hemicrania  | Diagnosis     | ICD-10-CM |
| G44.031 | Episodic paroxysmal hemicrania, intractable   | Diagnosis     | ICD-10-CM |
| G44.039 | Episodic paroxysmal hemicrania, not intractable   | Diagnosis     | ICD-10-CM |
| G44.04  | Chronic paroxysmal hemicrania   | Diagnosis     | ICD-10-CM |
| G44.041 | Chronic paroxysmal hemicrania, intractable  | Diagnosis     | ICD-10-CM |
| G44.049 | Chronic paroxysmal hemicrania, not intractable  | Diagnosis     | ICD-10-CM |
| G44.05  | Short lasting unilateral neuralgiform headache with conjunctival injection and tearing (SUNCT)                  | Diagnosis     | ICD-10-CM |
| G44.051 | Short lasting unilateral neuralgiform headache with conjunctival injection and tearing (SUNCT), intractable     | Diagnosis     | ICD-10-CM |
| G44.059 | Short lasting unilateral neuralgiform headache with conjunctival injection and tearing (SUNCT), not intractable | Diagnosis     | ICD-10-CM |
| G44.09  | Other trigeminal autonomic cephalgias (TAC)   | Diagnosis     | ICD-10-CM |
| G44.091 | Other trigeminal autonomic cephalgias (TAC), intractable  | Diagnosis     | ICD-10-CM |
| G44.099 | Other trigeminal autonomic cephalgias (TAC), not intractable  | Diagnosis     | ICD-10-CM |
| G44.1   | Vascular headache, not elsewhere classified   | Diagnosis     | ICD-10-CM |
| G44.2   | Tension-type headache   | Diagnosis     | ICD-10-CM |
| G44.20  | Tension-type headache, unspecified  | Diagnosis     | ICD-10-CM |
| G44.201 | Tension-type headache, unspecified, intractable   | Diagnosis     | ICD-10-CM |
| G44.209 | Tension-type headache, unspecified, not intractable   | Diagnosis     | ICD-10-CM |
| G44.21  | Episodic tension-type headache  | Diagnosis     | ICD-10-CM |
| G44.211 | Episodic tension-type headache, intractable   | Diagnosis     | ICD-10-CM |
| G44.219 | Episodic tension-type headache, not intractable   | Diagnosis     | ICD-10-CM |
| G44.22  | Chronic tension-type headache   | Diagnosis     | ICD-10-CM |
| G44.221 | Chronic tension-type headache, intractable  | Diagnosis     | ICD-10-CM |
| G44.229 | Chronic tension-type headache, not intractable  | Diagnosis     | ICD-10-CM |
| G44.3   | Post-traumatic headache   | Diagnosis     | ICD-10-CM |
| G44.30  | Post-traumatic headache, unspecified  | Diagnosis     | ICD-10-CM |
| G44.301 | Post-traumatic headache, unspecified, intractable   | Diagnosis     | ICD-10-CM |
| G44.309 | Post-traumatic headache, unspecified, not intractable   | Diagnosis     | ICD-10-CM |
| G44.31  | Acute post-traumatic headache   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code                         | Description  | Code Category | Code Type |
|------------------------------|--|---------------|-----------|
| G44.311                      | Acute post-traumatic headache, intractable                       | Diagnosis     | ICD-10-CM |
| G44.319                      | Acute post-traumatic headache, not intractable                   | Diagnosis     | ICD-10-CM |
| G44.32                       | Chronic post-traumatic headache                                  | Diagnosis     | ICD-10-CM |
| G44.321                      | Chronic post-traumatic headache, intractable                     | Diagnosis     | ICD-10-CM |
| G44.329                      | Chronic post-traumatic headache, not intractable                 | Diagnosis     | ICD-10-CM |
| G44.4                        | Drug-induced headache, not elsewhere classified                  | Diagnosis     | ICD-10-CM |
| G44.40                       | Drug-induced headache, not elsewhere classified, not intractable | Diagnosis     | ICD-10-CM |
| G44.41                       | Drug-induced headache, not elsewhere classified, intractable     | Diagnosis     | ICD-10-CM |
| G44.5                        | Complicated headache syndromes                                   | Diagnosis     | ICD-10-CM |
| G44.51                       | Hemicrania continua  | Diagnosis     | ICD-10-CM |
| G44.52                       | New daily persistent headache (NDPH)                             | Diagnosis     | ICD-10-CM |
| G44.53                       | Primary thunderclap headache                                     | Diagnosis     | ICD-10-CM |
| G44.59                       | Other complicated headache syndrome                              | Diagnosis     | ICD-10-CM |
| G44.8                        | Other specified headache syndromes                               | Diagnosis     | ICD-10-CM |
| G44.81                       | Hypnic headache  | Diagnosis     | ICD-10-CM |
| G44.82                       | Headache associated with sexual activity                         | Diagnosis     | ICD-10-CM |
| G44.83                       | Primary cough headache   | Diagnosis     | ICD-10-CM |
| G44.84                       | Primary exertional headache                                      | Diagnosis     | ICD-10-CM |
| G44.85                       | Primary stabbing headache  | Diagnosis     | ICD-10-CM |
| G44.86                       | Cervicogenic headache  | Diagnosis     | ICD-10-CM |
| G44.89                       | Other headache syndrome  | Diagnosis     | ICD-10-CM |
| <b>Nausea and Vomiting</b>   |  |               |           |
| R11.0                        | Nausea   | Diagnosis     | ICD-10-CM |
| R11.1                        | Vomiting   | Diagnosis     | ICD-10-CM |
| R11.10                       | Vomiting, unspecified  | Diagnosis     | ICD-10-CM |
| R11.11                       | Vomiting without nausea  | Diagnosis     | ICD-10-CM |
| R11.12                       | Projectile vomiting  | Diagnosis     | ICD-10-CM |
| R11.13                       | Vomiting of fecal matter   | Diagnosis     | ICD-10-CM |
| R11.14                       | Bilious vomiting   | Diagnosis     | ICD-10-CM |
| R11.15                       | Cyclical vomiting syndrome unrelated to migraine                 | Diagnosis     | ICD-10-CM |
| R11.2                        | Nausea with vomiting, unspecified                                | Diagnosis     | ICD-10-CM |
| <b>Obesity or Overweight</b> |  |               |           |
| E65                          | Localized adiposity  | Diagnosis     | ICD-10-CM |
| E66                          | Overweight and obesity   | Diagnosis     | ICD-10-CM |
| E66.0                        | Obesity due to excess calories                                   | Diagnosis     | ICD-10-CM |
| E66.01                       | Morbid (severe) obesity due to excess calories                   | Diagnosis     | ICD-10-CM |
| E66.09                       | Other obesity due to excess calories                             | Diagnosis     | ICD-10-CM |
| E66.1                        | Drug-induced obesity   | Diagnosis     | ICD-10-CM |
| E66.2                        | Morbid (severe) obesity with alveolar hypoventilation            | Diagnosis     | ICD-10-CM |
| E66.3                        | Overweight   | Diagnosis     | ICD-10-CM |
| E66.8                        | Other obesity  | Diagnosis     | ICD-10-CM |
| E66.9                        | Obesity, unspecified   | Diagnosis     | ICD-10-CM |
| Z68.25                       | Body mass index [BMI] 25.0-25.9, adult                           | Diagnosis     | ICD-10-CM |
| Z68.26                       | Body mass index [BMI] 26.0-26.9, adult                           | Diagnosis     | ICD-10-CM |
| Z68.27                       | Body mass index [BMI] 27.0-27.9, adult                           | Diagnosis     | ICD-10-CM |
| Z68.28                       | Body mass index [BMI] 28.0-28.9, adult                           | Diagnosis     | ICD-10-CM |
| Z68.29                       | Body mass index [BMI] 29.0-29.9, adult                           | Diagnosis     | ICD-10-CM |
| Z68.3                        | Body mass index [BMI] 30-39, adult                               | Diagnosis     | ICD-10-CM |
| Z68.30                       | Body mass index [BMI] 30.0-30.9, adult                           | Diagnosis     | ICD-10-CM |
| Z68.31                       | Body mass index [BMI] 31.0-31.9, adult                           | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code                                 | Description   | Code Category | Code Type |
|--------------------------------------|---|---------------|-----------|
| Z68.32                               | Body mass index [BMI] 32.0-32.9, adult  | Diagnosis     | ICD-10-CM |
| Z68.33                               | Body mass index [BMI] 33.0-33.9, adult  | Diagnosis     | ICD-10-CM |
| Z68.34                               | Body mass index [BMI] 34.0-34.9, adult  | Diagnosis     | ICD-10-CM |
| Z68.35                               | Body mass index [BMI] 35.0-35.9, adult  | Diagnosis     | ICD-10-CM |
| Z68.36                               | Body mass index [BMI] 36.0-36.9, adult  | Diagnosis     | ICD-10-CM |
| Z68.37                               | Body mass index [BMI] 37.0-37.9, adult  | Diagnosis     | ICD-10-CM |
| Z68.38                               | Body mass index [BMI] 38.0-38.9, adult  | Diagnosis     | ICD-10-CM |
| Z68.39                               | Body mass index [BMI] 39.0-39.9, adult  | Diagnosis     | ICD-10-CM |
| Z68.4                                | Body mass index [BMI] 40 or greater, adult  | Diagnosis     | ICD-10-CM |
| Z68.41                               | Body mass index [BMI] 40.0-44.9, adult  | Diagnosis     | ICD-10-CM |
| Z68.42                               | Body mass index [BMI] 45.0-49.9, adult  | Diagnosis     | ICD-10-CM |
| Z68.43                               | Body mass index [BMI] 50.0-59.9, adult  | Diagnosis     | ICD-10-CM |
| Z68.44                               | Body mass index [BMI] 60.0-69.9, adult  | Diagnosis     | ICD-10-CM |
| Z68.45                               | Body mass index [BMI] 70 or greater, adult  | Diagnosis     | ICD-10-CM |
| Z68.53                               | Body mass index [BMI] pediatric, 85th percentile to less than 95th percentile for age | Diagnosis     | ICD-10-CM |
| Z68.54                               | Body mass index [BMI] pediatric, greater than or equal to 95th percentile for age     | Diagnosis     | ICD-10-CM |
| <b>Obsessive-Compulsive Disorder</b> |   |               |           |
| F42                                  | Obsessive-compulsive disorder   | Diagnosis     | ICD-10-CM |
| F42.2                                | Mixed obsessional thoughts and acts   | Diagnosis     | ICD-10-CM |
| F42.3                                | Hoarding disorder   | Diagnosis     | ICD-10-CM |
| F42.4                                | Excoriation (skin-picking) disorder   | Diagnosis     | ICD-10-CM |
| F42.8                                | Other obsessive-compulsive disorder   | Diagnosis     | ICD-10-CM |
| F42.9                                | Obsessive-compulsive disorder, unspecified  | Diagnosis     | ICD-10-CM |
| <b>Pain Conditions</b>               |   |               |           |
| F45.4                                | Pain disorders related to psychological factors                                       | Diagnosis     | ICD-10-CM |
| F45.41                               | Pain disorder exclusively related to psychological factors                            | Diagnosis     | ICD-10-CM |
| F45.42                               | Pain disorder with related psychological factors                                      | Diagnosis     | ICD-10-CM |
| G89.0                                | Central pain syndrome   | Diagnosis     | ICD-10-CM |
| G89.1                                | Acute pain, not elsewhere classified  | Diagnosis     | ICD-10-CM |
| G89.11                               | Acute pain due to trauma  | Diagnosis     | ICD-10-CM |
| G89.12                               | Acute post-thoracotomy pain   | Diagnosis     | ICD-10-CM |
| G89.18                               | Other acute postprocedural pain   | Diagnosis     | ICD-10-CM |
| G89.2                                | Chronic pain, not elsewhere classified  | Diagnosis     | ICD-10-CM |
| G89.21                               | Chronic pain due to trauma  | Diagnosis     | ICD-10-CM |
| G89.22                               | Chronic post-thoracotomy pain   | Diagnosis     | ICD-10-CM |
| G89.28                               | Other chronic postprocedural pain   | Diagnosis     | ICD-10-CM |
| G89.29                               | Other chronic pain  | Diagnosis     | ICD-10-CM |
| G89.3                                | Neoplasm related pain (acute) (chronic)   | Diagnosis     | ICD-10-CM |
| G89.4                                | Chronic pain syndrome   | Diagnosis     | ICD-10-CM |
| M25.5                                | Pain in joint   | Diagnosis     | ICD-10-CM |
| M25.50                               | Pain in unspecified joint   | Diagnosis     | ICD-10-CM |
| M25.51                               | Pain in shoulder  | Diagnosis     | ICD-10-CM |
| M25.511                              | Pain in right shoulder  | Diagnosis     | ICD-10-CM |
| M25.512                              | Pain in left shoulder   | Diagnosis     | ICD-10-CM |
| M25.519                              | Pain in unspecified shoulder  | Diagnosis     | ICD-10-CM |
| M25.52                               | Pain in elbow   | Diagnosis     | ICD-10-CM |
| M25.521                              | Pain in right elbow   | Diagnosis     | ICD-10-CM |
| M25.522                              | Pain in left elbow  | Diagnosis     | ICD-10-CM |
| M25.529                              | Pain in unspecified elbow   | Diagnosis     | ICD-10-CM |
| M25.53                               | Pain in wrist   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| M25.531 | Pain in right wrist   | Diagnosis     | ICD-10-CM |
| M25.532 | Pain in left wrist  | Diagnosis     | ICD-10-CM |
| M25.539 | Pain in unspecified wrist   | Diagnosis     | ICD-10-CM |
| M25.54  | Pain in joints of hand  | Diagnosis     | ICD-10-CM |
| M25.541 | Pain in joints of right hand  | Diagnosis     | ICD-10-CM |
| M25.542 | Pain in joints of left hand   | Diagnosis     | ICD-10-CM |
| M25.549 | Pain in joints of unspecified hand  | Diagnosis     | ICD-10-CM |
| M25.55  | Pain in hip   | Diagnosis     | ICD-10-CM |
| M25.551 | Pain in right hip   | Diagnosis     | ICD-10-CM |
| M25.552 | Pain in left hip  | Diagnosis     | ICD-10-CM |
| M25.559 | Pain in unspecified hip   | Diagnosis     | ICD-10-CM |
| M25.56  | Pain in knee  | Diagnosis     | ICD-10-CM |
| M25.561 | Pain in right knee  | Diagnosis     | ICD-10-CM |
| M25.562 | Pain in left knee   | Diagnosis     | ICD-10-CM |
| M25.569 | Pain in unspecified knee  | Diagnosis     | ICD-10-CM |
| M25.57  | Pain in ankle and joints of foot  | Diagnosis     | ICD-10-CM |
| M25.571 | Pain in right ankle and joints of right foot                                      | Diagnosis     | ICD-10-CM |
| M25.572 | Pain in left ankle and joints of left foot  | Diagnosis     | ICD-10-CM |
| M25.579 | Pain in unspecified ankle and joints of unspecified foot                          | Diagnosis     | ICD-10-CM |
| M25.59  | Pain in other specified joint   | Diagnosis     | ICD-10-CM |
| M54.0   | Panniculitis affecting regions of neck and back                                   | Diagnosis     | ICD-10-CM |
| M54.00  | Panniculitis affecting regions of neck and back, site unspecified                 | Diagnosis     | ICD-10-CM |
| M54.01  | Panniculitis affecting regions of neck and back, occipito-atlanto-axial region    | Diagnosis     | ICD-10-CM |
| M54.02  | Panniculitis affecting regions of neck and back, cervical region                  | Diagnosis     | ICD-10-CM |
| M54.03  | Panniculitis affecting regions of neck and back, cervicothoracic region           | Diagnosis     | ICD-10-CM |
| M54.04  | Panniculitis affecting regions of neck and back, thoracic region                  | Diagnosis     | ICD-10-CM |
| M54.05  | Panniculitis affecting regions of neck and back, thoracolumbar region             | Diagnosis     | ICD-10-CM |
| M54.06  | Panniculitis affecting regions of neck and back, lumbar region                    | Diagnosis     | ICD-10-CM |
| M54.07  | Panniculitis affecting regions of neck and back, lumbosacral region               | Diagnosis     | ICD-10-CM |
| M54.08  | Panniculitis affecting regions of neck and back, sacral and sacrococcygeal region | Diagnosis     | ICD-10-CM |
| M54.09  | Panniculitis affecting regions, neck and back, multiple sites in spine            | Diagnosis     | ICD-10-CM |
| M54.1   | Radiculopathy   | Diagnosis     | ICD-10-CM |
| M54.10  | Radiculopathy, site unspecified   | Diagnosis     | ICD-10-CM |
| M54.11  | Radiculopathy, occipito-atlanto-axial region                                      | Diagnosis     | ICD-10-CM |
| M54.12  | Radiculopathy, cervical region  | Diagnosis     | ICD-10-CM |
| M54.13  | Radiculopathy, cervicothoracic region   | Diagnosis     | ICD-10-CM |
| M54.14  | Radiculopathy, thoracic region  | Diagnosis     | ICD-10-CM |
| M54.15  | Radiculopathy, thoracolumbar region   | Diagnosis     | ICD-10-CM |
| M54.16  | Radiculopathy, lumbar region  | Diagnosis     | ICD-10-CM |
| M54.17  | Radiculopathy, lumbosacral region   | Diagnosis     | ICD-10-CM |
| M54.18  | Radiculopathy, sacral and sacrococcygeal region                                   | Diagnosis     | ICD-10-CM |
| M54.2   | Cervicalgia   | Diagnosis     | ICD-10-CM |
| M54.3   | Sciatica  | Diagnosis     | ICD-10-CM |
| M54.30  | Sciatica, unspecified side  | Diagnosis     | ICD-10-CM |
| M54.31  | Sciatica, right side  | Diagnosis     | ICD-10-CM |
| M54.32  | Sciatica, left side   | Diagnosis     | ICD-10-CM |
| M54.4   | Lumbago with sciatica   | Diagnosis     | ICD-10-CM |
| M54.40  | Lumbago with sciatica, unspecified side   | Diagnosis     | ICD-10-CM |
| M54.41  | Lumbago with sciatica, right side   | Diagnosis     | ICD-10-CM |
| M54.42  | Lumbago with sciatica, left side  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description                                       | Code Category | Code Type |
|---------|---|---------------|-----------|
| M54.5   | Low back pain                                     | Diagnosis     | ICD-10-CM |
| M54.50  | Low back pain, unspecified                        | Diagnosis     | ICD-10-CM |
| M54.51  | Vertebrogenic low back pain                       | Diagnosis     | ICD-10-CM |
| M54.59  | Other low back pain                               | Diagnosis     | ICD-10-CM |
| M54.6   | Pain in thoracic spine                            | Diagnosis     | ICD-10-CM |
| M54.8   | Other dorsalgia                                   | Diagnosis     | ICD-10-CM |
| M54.81  | Occipital neuralgia                               | Diagnosis     | ICD-10-CM |
| M54.89  | Other dorsalgia                                   | Diagnosis     | ICD-10-CM |
| M54.9   | Dorsalgia, unspecified                            | Diagnosis     | ICD-10-CM |
| R07.0   | Pain in throat                                    | Diagnosis     | ICD-10-CM |
| R07.1   | Chest pain on breathing                           | Diagnosis     | ICD-10-CM |
| R07.2   | Precordial pain                                   | Diagnosis     | ICD-10-CM |
| R07.8   | Other chest pain                                  | Diagnosis     | ICD-10-CM |
| R07.81  | Pleurodynia                                       | Diagnosis     | ICD-10-CM |
| R07.82  | Intercostal pain                                  | Diagnosis     | ICD-10-CM |
| R07.89  | Other chest pain                                  | Diagnosis     | ICD-10-CM |
| R07.9   | Chest pain, unspecified                           | Diagnosis     | ICD-10-CM |
| R10.0   | Acute abdomen                                     | Diagnosis     | ICD-10-CM |
| R10.1   | Pain localized to upper abdomen                   | Diagnosis     | ICD-10-CM |
| R10.10  | Upper abdominal pain, unspecified                 | Diagnosis     | ICD-10-CM |
| R10.11  | Right upper quadrant pain                         | Diagnosis     | ICD-10-CM |
| R10.12  | Left upper quadrant pain                          | Diagnosis     | ICD-10-CM |
| R10.13  | Epigastric pain                                   | Diagnosis     | ICD-10-CM |
| R10.2   | Pelvic and perineal pain                          | Diagnosis     | ICD-10-CM |
| R10.3   | Pain localized to other parts of lower abdomen    | Diagnosis     | ICD-10-CM |
| R10.30  | Lower abdominal pain, unspecified                 | Diagnosis     | ICD-10-CM |
| R10.31  | Right lower quadrant pain                         | Diagnosis     | ICD-10-CM |
| R10.32  | Left lower quadrant pain                          | Diagnosis     | ICD-10-CM |
| R10.33  | Periumbilical pain                                | Diagnosis     | ICD-10-CM |
| R10.8   | Other abdominal pain                              | Diagnosis     | ICD-10-CM |
| R10.81  | Abdominal tenderness                              | Diagnosis     | ICD-10-CM |
| R10.811 | Right upper quadrant abdominal tenderness         | Diagnosis     | ICD-10-CM |
| R10.812 | Left upper quadrant abdominal tenderness          | Diagnosis     | ICD-10-CM |
| R10.813 | Right lower quadrant abdominal tenderness         | Diagnosis     | ICD-10-CM |
| R10.814 | Left lower quadrant abdominal tenderness          | Diagnosis     | ICD-10-CM |
| R10.815 | Periumbilic abdominal tenderness                  | Diagnosis     | ICD-10-CM |
| R10.816 | Epigastric abdominal tenderness                   | Diagnosis     | ICD-10-CM |
| R10.817 | Generalized abdominal tenderness                  | Diagnosis     | ICD-10-CM |
| R10.819 | Abdominal tenderness, unspecified site            | Diagnosis     | ICD-10-CM |
| R10.82  | Rebound abdominal tenderness                      | Diagnosis     | ICD-10-CM |
| R10.821 | Right upper quadrant rebound abdominal tenderness | Diagnosis     | ICD-10-CM |
| R10.822 | Left upper quadrant rebound abdominal tenderness  | Diagnosis     | ICD-10-CM |
| R10.823 | Right lower quadrant rebound abdominal tenderness | Diagnosis     | ICD-10-CM |
| R10.824 | Left lower quadrant rebound abdominal tenderness  | Diagnosis     | ICD-10-CM |
| R10.825 | Periumbilic rebound abdominal tenderness          | Diagnosis     | ICD-10-CM |
| R10.826 | Epigastric rebound abdominal tenderness           | Diagnosis     | ICD-10-CM |
| R10.827 | Generalized rebound abdominal tenderness          | Diagnosis     | ICD-10-CM |
| R10.829 | Rebound abdominal tenderness, unspecified site    | Diagnosis     | ICD-10-CM |
| R10.83  | Colic   | Diagnosis     | ICD-10-CM |
| R10.84  | Generalized abdominal pain                        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code                                     | Description   | Code Category | Code Type |
|--|---|---------------|-----------|
| R10.9                                    | Unspecified abdominal pain  | Diagnosis     | ICD-10-CM |
| R52                                      | Pain, unspecified   | Diagnosis     | ICD-10-CM |
| <b>Pervasive Developmental Disorders</b> |   |               |           |
| F84                                      | Pervasive developmental disorders   | Diagnosis     | ICD-10-CM |
| F84.0                                    | Autistic disorder   | Diagnosis     | ICD-10-CM |
| F84.2                                    | Rett's syndrome   | Diagnosis     | ICD-10-CM |
| F84.3                                    | Other childhood disintegrative disorder   | Diagnosis     | ICD-10-CM |
| F84.5                                    | Asperger's syndrome   | Diagnosis     | ICD-10-CM |
| F84.8                                    | Other pervasive developmental disorders   | Diagnosis     | ICD-10-CM |
| F84.9                                    | Pervasive developmental disorder, unspecified                                       | Diagnosis     | ICD-10-CM |
| <b>Psychotic Disorders</b>               |   |               |           |
| F06.33                                   | Mood disorder due to known physiological condition with manic features              | Diagnosis     | ICD-10-CM |
| F20.0                                    | Paranoid schizophrenia  | Diagnosis     | ICD-10-CM |
| F20.1                                    | Disorganized schizophrenia  | Diagnosis     | ICD-10-CM |
| F20.2                                    | Catatonic schizophrenia   | Diagnosis     | ICD-10-CM |
| F20.3                                    | Undifferentiated schizophrenia  | Diagnosis     | ICD-10-CM |
| F20.5                                    | Residual schizophrenia  | Diagnosis     | ICD-10-CM |
| F20.8                                    | Other schizophrenia   | Diagnosis     | ICD-10-CM |
| F20.81                                   | Schizophreniform disorder   | Diagnosis     | ICD-10-CM |
| F20.89                                   | Other schizophrenia   | Diagnosis     | ICD-10-CM |
| F20.9                                    | Schizophrenia, unspecified  | Diagnosis     | ICD-10-CM |
| F22                                      | Delusional disorders  | Diagnosis     | ICD-10-CM |
| F23                                      | Brief psychotic disorder  | Diagnosis     | ICD-10-CM |
| F24                                      | Shared psychotic disorder   | Diagnosis     | ICD-10-CM |
| F25.0                                    | Schizoaffective disorder, bipolar type  | Diagnosis     | ICD-10-CM |
| F25.1                                    | Schizoaffective disorder, depressive type   | Diagnosis     | ICD-10-CM |
| F25.8                                    | Other schizoaffective disorders   | Diagnosis     | ICD-10-CM |
| F25.9                                    | Schizoaffective disorder, unspecified   | Diagnosis     | ICD-10-CM |
| F28                                      | Other psychotic disorder not due to a substance or known physiological condition    | Diagnosis     | ICD-10-CM |
| F29                                      | Unspecified psychosis not due to a substance or known physiological condition       | Diagnosis     | ICD-10-CM |
| F30.1                                    | Manic episode without psychotic symptoms  | Diagnosis     | ICD-10-CM |
| F30.10                                   | Manic episode without psychotic symptoms, unspecified                               | Diagnosis     | ICD-10-CM |
| F30.11                                   | Manic episode without psychotic symptoms, mild                                      | Diagnosis     | ICD-10-CM |
| F30.12                                   | Manic episode without psychotic symptoms, moderate                                  | Diagnosis     | ICD-10-CM |
| F30.13                                   | Manic episode, severe, without psychotic symptoms                                   | Diagnosis     | ICD-10-CM |
| F30.2                                    | Manic episode, severe with psychotic symptoms                                       | Diagnosis     | ICD-10-CM |
| F30.3                                    | Manic episode in partial remission  | Diagnosis     | ICD-10-CM |
| F30.4                                    | Manic episode in full remission   | Diagnosis     | ICD-10-CM |
| F30.8                                    | Other manic episodes  | Diagnosis     | ICD-10-CM |
| F30.9                                    | Manic episode, unspecified  | Diagnosis     | ICD-10-CM |
| F31.0                                    | Bipolar disorder, current episode hypomanic   | Diagnosis     | ICD-10-CM |
| F31.1                                    | Bipolar disorder, current episode manic without psychotic features                  | Diagnosis     | ICD-10-CM |
| F31.10                                   | Bipolar disorder, current episode manic without psychotic features, unspecified     | Diagnosis     | ICD-10-CM |
| F31.11                                   | Bipolar disorder, current episode manic without psychotic features, mild            | Diagnosis     | ICD-10-CM |
| F31.12                                   | Bipolar disorder, current episode manic without psychotic features, moderate        | Diagnosis     | ICD-10-CM |
| F31.13                                   | Bipolar disorder, current episode manic without psychotic features, severe          | Diagnosis     | ICD-10-CM |
| F31.2                                    | Bipolar disorder, current episode manic severe with psychotic features              | Diagnosis     | ICD-10-CM |
| F31.3                                    | Bipolar disorder, current episode depressed, mild or moderate severity              | Diagnosis     | ICD-10-CM |
| F31.30                                   | Bipolar disorder, current episode depressed, mild or moderate severity, unspecified | Diagnosis     | ICD-10-CM |
| F31.31                                   | Bipolar disorder, current episode depressed, mild                                   | Diagnosis     | ICD-10-CM |

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| Code                           | Description   | Code Category | Code Type |
|--------------------------------|---|---------------|-----------|
| F31.32                         | Bipolar disorder, current episode depressed, moderate                           | Diagnosis     | ICD-10-CM |
| F31.4                          | Bipolar disorder, current episode depressed, severe, without psychotic features | Diagnosis     | ICD-10-CM |
| F31.5                          | Bipolar disorder, current episode depressed, severe, with psychotic features    | Diagnosis     | ICD-10-CM |
| F31.6                          | Bipolar disorder, current episode mixed   | Diagnosis     | ICD-10-CM |
| F31.60                         | Bipolar disorder, current episode mixed, unspecified                            | Diagnosis     | ICD-10-CM |
| F31.61                         | Bipolar disorder, current episode mixed, mild                                   | Diagnosis     | ICD-10-CM |
| F31.62                         | Bipolar disorder, current episode mixed, moderate                               | Diagnosis     | ICD-10-CM |
| F31.63                         | Bipolar disorder, current episode mixed, severe, without psychotic features     | Diagnosis     | ICD-10-CM |
| F31.64                         | Bipolar disorder, current episode mixed, severe, with psychotic features        | Diagnosis     | ICD-10-CM |
| F31.7                          | Bipolar disorder, currently in remission  | Diagnosis     | ICD-10-CM |
| F31.70                         | Bipolar disorder, currently in remission, most recent episode unspecified       | Diagnosis     | ICD-10-CM |
| F31.71                         | Bipolar disorder, in partial remission, most recent episode hypomanic           | Diagnosis     | ICD-10-CM |
| F31.72                         | Bipolar disorder, in full remission, most recent episode hypomanic              | Diagnosis     | ICD-10-CM |
| F31.73                         | Bipolar disorder, in partial remission, most recent episode manic               | Diagnosis     | ICD-10-CM |
| F31.74                         | Bipolar disorder, in full remission, most recent episode manic                  | Diagnosis     | ICD-10-CM |
| F31.75                         | Bipolar disorder, in partial remission, most recent episode depressed           | Diagnosis     | ICD-10-CM |
| F31.76                         | Bipolar disorder, in full remission, most recent episode depressed              | Diagnosis     | ICD-10-CM |
| F31.77                         | Bipolar disorder, in partial remission, most recent episode mixed               | Diagnosis     | ICD-10-CM |
| F31.78                         | Bipolar disorder, in full remission, most recent episode mixed                  | Diagnosis     | ICD-10-CM |
| F31.8                          | Other bipolar disorders   | Diagnosis     | ICD-10-CM |
| F31.81                         | Bipolar II disorder   | Diagnosis     | ICD-10-CM |
| F31.89                         | Other bipolar disorder  | Diagnosis     | ICD-10-CM |
| F31.9                          | Bipolar disorder, unspecified   | Diagnosis     | ICD-10-CM |
| R44.0                          | Auditory hallucinations   | Diagnosis     | ICD-10-CM |
| R44.1                          | Visual hallucinations   | Diagnosis     | ICD-10-CM |
| R44.2                          | Other hallucinations  | Diagnosis     | ICD-10-CM |
| R44.3                          | Hallucinations, unspecified   | Diagnosis     | ICD-10-CM |
| R44.8                          | Other symptoms and signs involving general sensations and perceptions           | Diagnosis     | ICD-10-CM |
| R44.9                          | Unspecified symptoms and signs involving general sensations and perceptions     | Diagnosis     | ICD-10-CM |
| <b>Rheumatologic disorders</b> |   |               |           |
| M08                            | Juvenile arthritis  | Diagnosis     | ICD-10-CM |
| M08.0                          | Unspecified juvenile rheumatoid arthritis                                       | Diagnosis     | ICD-10-CM |
| M08.00                         | Unspecified juvenile rheumatoid arthritis of unspecified site                   | Diagnosis     | ICD-10-CM |
| M08.01                         | Unspecified juvenile rheumatoid arthritis, shoulder                             | Diagnosis     | ICD-10-CM |
| M08.011                        | Unspecified juvenile rheumatoid arthritis, right shoulder                       | Diagnosis     | ICD-10-CM |
| M08.012                        | Unspecified juvenile rheumatoid arthritis, left shoulder                        | Diagnosis     | ICD-10-CM |
| M08.019                        | Unspecified juvenile rheumatoid arthritis, unspecified shoulder                 | Diagnosis     | ICD-10-CM |
| M08.02                         | Unspecified juvenile rheumatoid arthritis of elbow                              | Diagnosis     | ICD-10-CM |
| M08.021                        | Unspecified juvenile rheumatoid arthritis, right elbow                          | Diagnosis     | ICD-10-CM |
| M08.022                        | Unspecified juvenile rheumatoid arthritis, left elbow                           | Diagnosis     | ICD-10-CM |
| M08.029                        | Unspecified juvenile rheumatoid arthritis, unspecified elbow                    | Diagnosis     | ICD-10-CM |
| M08.03                         | Unspecified juvenile rheumatoid arthritis, wrist                                | Diagnosis     | ICD-10-CM |
| M08.031                        | Unspecified juvenile rheumatoid arthritis, right wrist                          | Diagnosis     | ICD-10-CM |
| M08.032                        | Unspecified juvenile rheumatoid arthritis, left wrist                           | Diagnosis     | ICD-10-CM |
| M08.039                        | Unspecified juvenile rheumatoid arthritis, unspecified wrist                    | Diagnosis     | ICD-10-CM |
| M08.04                         | Unspecified juvenile rheumatoid arthritis, hand                                 | Diagnosis     | ICD-10-CM |
| M08.041                        | Unspecified juvenile rheumatoid arthritis, right hand                           | Diagnosis     | ICD-10-CM |
| M08.042                        | Unspecified juvenile rheumatoid arthritis, left hand                            | Diagnosis     | ICD-10-CM |
| M08.049                        | Unspecified juvenile rheumatoid arthritis, unspecified hand                     | Diagnosis     | ICD-10-CM |
| M08.05                         | Unspecified juvenile rheumatoid arthritis, hip                                  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| M08.051 | Unspecified juvenile rheumatoid arthritis, right hip                          | Diagnosis     | ICD-10-CM |
| M08.052 | Unspecified juvenile rheumatoid arthritis, left hip                           | Diagnosis     | ICD-10-CM |
| M08.059 | Unspecified juvenile rheumatoid arthritis, unspecified hip                    | Diagnosis     | ICD-10-CM |
| M08.06  | Unspecified juvenile rheumatoid arthritis, knee                               | Diagnosis     | ICD-10-CM |
| M08.061 | Unspecified juvenile rheumatoid arthritis, right knee                         | Diagnosis     | ICD-10-CM |
| M08.062 | Unspecified juvenile rheumatoid arthritis, left knee                          | Diagnosis     | ICD-10-CM |
| M08.069 | Unspecified juvenile rheumatoid arthritis, unspecified knee                   | Diagnosis     | ICD-10-CM |
| M08.07  | Unspecified juvenile rheumatoid arthritis, ankle and foot                     | Diagnosis     | ICD-10-CM |
| M08.071 | Unspecified juvenile rheumatoid arthritis, right ankle and foot               | Diagnosis     | ICD-10-CM |
| M08.072 | Unspecified juvenile rheumatoid arthritis, left ankle and foot                | Diagnosis     | ICD-10-CM |
| M08.079 | Unspecified juvenile rheumatoid arthritis, unspecified ankle and foot         | Diagnosis     | ICD-10-CM |
| M08.08  | Unspecified juvenile rheumatoid arthritis, vertebrae                          | Diagnosis     | ICD-10-CM |
| M08.09  | Unspecified juvenile rheumatoid arthritis, multiple sites                     | Diagnosis     | ICD-10-CM |
| M08.0A  | Unspecified juvenile rheumatoid arthritis, other specified site               | Diagnosis     | ICD-10-CM |
| M08.1   | Juvenile ankylosing spondylitis   | Diagnosis     | ICD-10-CM |
| M08.2   | Juvenile rheumatoid arthritis with systemic onset                             | Diagnosis     | ICD-10-CM |
| M08.20  | Juvenile rheumatoid arthritis with systemic onset, unspecified site           | Diagnosis     | ICD-10-CM |
| M08.21  | Juvenile rheumatoid arthritis with systemic onset, shoulder                   | Diagnosis     | ICD-10-CM |
| M08.211 | Juvenile rheumatoid arthritis with systemic onset, right shoulder             | Diagnosis     | ICD-10-CM |
| M08.212 | Juvenile rheumatoid arthritis with systemic onset, left shoulder              | Diagnosis     | ICD-10-CM |
| M08.219 | Juvenile rheumatoid arthritis with systemic onset, unspecified shoulder       | Diagnosis     | ICD-10-CM |
| M08.22  | Juvenile rheumatoid arthritis with systemic onset, elbow                      | Diagnosis     | ICD-10-CM |
| M08.221 | Juvenile rheumatoid arthritis with systemic onset, right elbow                | Diagnosis     | ICD-10-CM |
| M08.222 | Juvenile rheumatoid arthritis with systemic onset, left elbow                 | Diagnosis     | ICD-10-CM |
| M08.229 | Juvenile rheumatoid arthritis with systemic onset, unspecified elbow          | Diagnosis     | ICD-10-CM |
| M08.23  | Juvenile rheumatoid arthritis with systemic onset, wrist                      | Diagnosis     | ICD-10-CM |
| M08.231 | Juvenile rheumatoid arthritis with systemic onset, right wrist                | Diagnosis     | ICD-10-CM |
| M08.232 | Juvenile rheumatoid arthritis with systemic onset, left wrist                 | Diagnosis     | ICD-10-CM |
| M08.239 | Juvenile rheumatoid arthritis with systemic onset, unspecified wrist          | Diagnosis     | ICD-10-CM |
| M08.24  | Juvenile rheumatoid arthritis with systemic onset, hand                       | Diagnosis     | ICD-10-CM |
| M08.241 | Juvenile rheumatoid arthritis with systemic onset, right hand                 | Diagnosis     | ICD-10-CM |
| M08.242 | Juvenile rheumatoid arthritis with systemic onset, left hand                  | Diagnosis     | ICD-10-CM |
| M08.249 | Juvenile rheumatoid arthritis with systemic onset, unspecified hand           | Diagnosis     | ICD-10-CM |
| M08.25  | Juvenile rheumatoid arthritis with systemic onset, hip                        | Diagnosis     | ICD-10-CM |
| M08.251 | Juvenile rheumatoid arthritis with systemic onset, right hip                  | Diagnosis     | ICD-10-CM |
| M08.252 | Juvenile rheumatoid arthritis with systemic onset, left hip                   | Diagnosis     | ICD-10-CM |
| M08.259 | Juvenile rheumatoid arthritis with systemic onset, unspecified hip            | Diagnosis     | ICD-10-CM |
| M08.26  | Juvenile rheumatoid arthritis with systemic onset, knee                       | Diagnosis     | ICD-10-CM |
| M08.261 | Juvenile rheumatoid arthritis with systemic onset, right knee                 | Diagnosis     | ICD-10-CM |
| M08.262 | Juvenile rheumatoid arthritis with systemic onset, left knee                  | Diagnosis     | ICD-10-CM |
| M08.269 | Juvenile rheumatoid arthritis with systemic onset, unspecified knee           | Diagnosis     | ICD-10-CM |
| M08.27  | Juvenile rheumatoid arthritis with systemic onset, ankle and foot             | Diagnosis     | ICD-10-CM |
| M08.271 | Juvenile rheumatoid arthritis with systemic onset, right ankle and foot       | Diagnosis     | ICD-10-CM |
| M08.272 | Juvenile rheumatoid arthritis with systemic onset, left ankle and foot        | Diagnosis     | ICD-10-CM |
| M08.279 | Juvenile rheumatoid arthritis with systemic onset, unspecified ankle and foot | Diagnosis     | ICD-10-CM |
| M08.28  | Juvenile rheumatoid arthritis with systemic onset, vertebrae                  | Diagnosis     | ICD-10-CM |
| M08.29  | Juvenile rheumatoid arthritis with systemic onset, multiple sites             | Diagnosis     | ICD-10-CM |
| M08.2A  | Juvenile rheumatoid arthritis with systemic onset, other specified site       | Diagnosis     | ICD-10-CM |
| M08.3   | Juvenile rheumatoid polyarthritis (seronegative)                              | Diagnosis     | ICD-10-CM |
| M08.4   | Pauciarticular juvenile rheumatoid arthritis                                  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| M08.40  | Pauciarticular juvenile rheumatoid arthritis, unspecified site           | Diagnosis     | ICD-10-CM |
| M08.41  | Pauciarticular juvenile rheumatoid arthritis, shoulder                   | Diagnosis     | ICD-10-CM |
| M08.411 | Pauciarticular juvenile rheumatoid arthritis, right shoulder             | Diagnosis     | ICD-10-CM |
| M08.412 | Pauciarticular juvenile rheumatoid arthritis, left shoulder              | Diagnosis     | ICD-10-CM |
| M08.419 | Pauciarticular juvenile rheumatoid arthritis, unspecified shoulder       | Diagnosis     | ICD-10-CM |
| M08.42  | Pauciarticular juvenile rheumatoid arthritis, elbow                      | Diagnosis     | ICD-10-CM |
| M08.421 | Pauciarticular juvenile rheumatoid arthritis, right elbow                | Diagnosis     | ICD-10-CM |
| M08.422 | Pauciarticular juvenile rheumatoid arthritis, left elbow                 | Diagnosis     | ICD-10-CM |
| M08.429 | Pauciarticular juvenile rheumatoid arthritis, unspecified elbow          | Diagnosis     | ICD-10-CM |
| M08.43  | Pauciarticular juvenile rheumatoid arthritis, wrist                      | Diagnosis     | ICD-10-CM |
| M08.431 | Pauciarticular juvenile rheumatoid arthritis, right wrist                | Diagnosis     | ICD-10-CM |
| M08.432 | Pauciarticular juvenile rheumatoid arthritis, left wrist                 | Diagnosis     | ICD-10-CM |
| M08.439 | Pauciarticular juvenile rheumatoid arthritis, unspecified wrist          | Diagnosis     | ICD-10-CM |
| M08.44  | Pauciarticular juvenile rheumatoid arthritis, hand                       | Diagnosis     | ICD-10-CM |
| M08.441 | Pauciarticular juvenile rheumatoid arthritis, right hand                 | Diagnosis     | ICD-10-CM |
| M08.442 | Pauciarticular juvenile rheumatoid arthritis, left hand                  | Diagnosis     | ICD-10-CM |
| M08.449 | Pauciarticular juvenile rheumatoid arthritis, unspecified hand           | Diagnosis     | ICD-10-CM |
| M08.45  | Pauciarticular juvenile rheumatoid arthritis, hip                        | Diagnosis     | ICD-10-CM |
| M08.451 | Pauciarticular juvenile rheumatoid arthritis, right hip                  | Diagnosis     | ICD-10-CM |
| M08.452 | Pauciarticular juvenile rheumatoid arthritis, left hip                   | Diagnosis     | ICD-10-CM |
| M08.459 | Pauciarticular juvenile rheumatoid arthritis, unspecified hip            | Diagnosis     | ICD-10-CM |
| M08.46  | Pauciarticular juvenile rheumatoid arthritis, knee                       | Diagnosis     | ICD-10-CM |
| M08.461 | Pauciarticular juvenile rheumatoid arthritis, right knee                 | Diagnosis     | ICD-10-CM |
| M08.462 | Pauciarticular juvenile rheumatoid arthritis, left knee                  | Diagnosis     | ICD-10-CM |
| M08.469 | Pauciarticular juvenile rheumatoid arthritis, unspecified knee           | Diagnosis     | ICD-10-CM |
| M08.47  | Pauciarticular juvenile rheumatoid arthritis, ankle and foot             | Diagnosis     | ICD-10-CM |
| M08.471 | Pauciarticular juvenile rheumatoid arthritis, right ankle and foot       | Diagnosis     | ICD-10-CM |
| M08.472 | Pauciarticular juvenile rheumatoid arthritis, left ankle and foot        | Diagnosis     | ICD-10-CM |
| M08.479 | Pauciarticular juvenile rheumatoid arthritis, unspecified ankle and foot | Diagnosis     | ICD-10-CM |
| M08.48  | Pauciarticular juvenile rheumatoid arthritis, vertebrae                  | Diagnosis     | ICD-10-CM |
| M08.4A  | Pauciarticular juvenile rheumatoid arthritis, other specified site       | Diagnosis     | ICD-10-CM |
| M08.8   | Other juvenile arthritis   | Diagnosis     | ICD-10-CM |
| M08.80  | Other juvenile arthritis, unspecified site                               | Diagnosis     | ICD-10-CM |
| M08.81  | Other juvenile arthritis, shoulder                                       | Diagnosis     | ICD-10-CM |
| M08.811 | Other juvenile arthritis, right shoulder                                 | Diagnosis     | ICD-10-CM |
| M08.812 | Other juvenile arthritis, left shoulder                                  | Diagnosis     | ICD-10-CM |
| M08.819 | Other juvenile arthritis, unspecified shoulder                           | Diagnosis     | ICD-10-CM |
| M08.82  | Other juvenile arthritis, elbow  | Diagnosis     | ICD-10-CM |
| M08.821 | Other juvenile arthritis, right elbow                                    | Diagnosis     | ICD-10-CM |
| M08.822 | Other juvenile arthritis, left elbow                                     | Diagnosis     | ICD-10-CM |
| M08.829 | Other juvenile arthritis, unspecified elbow                              | Diagnosis     | ICD-10-CM |
| M08.83  | Other juvenile arthritis, wrist  | Diagnosis     | ICD-10-CM |
| M08.831 | Other juvenile arthritis, right wrist                                    | Diagnosis     | ICD-10-CM |
| M08.832 | Other juvenile arthritis, left wrist                                     | Diagnosis     | ICD-10-CM |
| M08.839 | Other juvenile arthritis, unspecified wrist                              | Diagnosis     | ICD-10-CM |
| M08.84  | Other juvenile arthritis, hand   | Diagnosis     | ICD-10-CM |
| M08.841 | Other juvenile arthritis, right hand                                     | Diagnosis     | ICD-10-CM |
| M08.842 | Other juvenile arthritis, left hand                                      | Diagnosis     | ICD-10-CM |
| M08.849 | Other juvenile arthritis, unspecified hand                               | Diagnosis     | ICD-10-CM |
| M08.85  | Other juvenile arthritis, hip  | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| M08.851 | Other juvenile arthritis, right hip                                   | Diagnosis     | ICD-10-CM |
| M08.852 | Other juvenile arthritis, left hip                                    | Diagnosis     | ICD-10-CM |
| M08.859 | Other juvenile arthritis, unspecified hip                             | Diagnosis     | ICD-10-CM |
| M08.86  | Other juvenile arthritis, knee  | Diagnosis     | ICD-10-CM |
| M08.861 | Other juvenile arthritis, right knee                                  | Diagnosis     | ICD-10-CM |
| M08.862 | Other juvenile arthritis, left knee                                   | Diagnosis     | ICD-10-CM |
| M08.869 | Other juvenile arthritis, unspecified knee                            | Diagnosis     | ICD-10-CM |
| M08.87  | Other juvenile arthritis, ankle and foot                              | Diagnosis     | ICD-10-CM |
| M08.871 | Other juvenile arthritis, right ankle and foot                        | Diagnosis     | ICD-10-CM |
| M08.872 | Other juvenile arthritis, left ankle and foot                         | Diagnosis     | ICD-10-CM |
| M08.879 | Other juvenile arthritis, unspecified ankle and foot                  | Diagnosis     | ICD-10-CM |
| M08.88  | Other juvenile arthritis, other specified site                        | Diagnosis     | ICD-10-CM |
| M08.89  | Other juvenile arthritis, multiple sites                              | Diagnosis     | ICD-10-CM |
| M08.9   | Juvenile arthritis, unspecified                                       | Diagnosis     | ICD-10-CM |
| M08.90  | Juvenile arthritis, unspecified, unspecified site                     | Diagnosis     | ICD-10-CM |
| M08.91  | Juvenile arthritis, unspecified, shoulder                             | Diagnosis     | ICD-10-CM |
| M08.911 | Juvenile arthritis, unspecified, right shoulder                       | Diagnosis     | ICD-10-CM |
| M08.912 | Juvenile arthritis, unspecified, left shoulder                        | Diagnosis     | ICD-10-CM |
| M08.919 | Juvenile arthritis, unspecified, unspecified shoulder                 | Diagnosis     | ICD-10-CM |
| M08.92  | Juvenile arthritis, unspecified, elbow                                | Diagnosis     | ICD-10-CM |
| M08.921 | Juvenile arthritis, unspecified, right elbow                          | Diagnosis     | ICD-10-CM |
| M08.922 | Juvenile arthritis, unspecified, left elbow                           | Diagnosis     | ICD-10-CM |
| M08.929 | Juvenile arthritis, unspecified, unspecified elbow                    | Diagnosis     | ICD-10-CM |
| M08.93  | Juvenile arthritis, unspecified, wrist                                | Diagnosis     | ICD-10-CM |
| M08.931 | Juvenile arthritis, unspecified, right wrist                          | Diagnosis     | ICD-10-CM |
| M08.932 | Juvenile arthritis, unspecified, left wrist                           | Diagnosis     | ICD-10-CM |
| M08.939 | Juvenile arthritis, unspecified, unspecified wrist                    | Diagnosis     | ICD-10-CM |
| M08.94  | Juvenile arthritis, unspecified, hand                                 | Diagnosis     | ICD-10-CM |
| M08.941 | Juvenile arthritis, unspecified, right hand                           | Diagnosis     | ICD-10-CM |
| M08.942 | Juvenile arthritis, unspecified, left hand                            | Diagnosis     | ICD-10-CM |
| M08.949 | Juvenile arthritis, unspecified, unspecified hand                     | Diagnosis     | ICD-10-CM |
| M08.95  | Juvenile arthritis, unspecified, hip                                  | Diagnosis     | ICD-10-CM |
| M08.951 | Juvenile arthritis, unspecified, right hip                            | Diagnosis     | ICD-10-CM |
| M08.952 | Juvenile arthritis, unspecified, left hip                             | Diagnosis     | ICD-10-CM |
| M08.959 | Juvenile arthritis, unspecified, unspecified hip                      | Diagnosis     | ICD-10-CM |
| M08.96  | Juvenile arthritis, unspecified, knee                                 | Diagnosis     | ICD-10-CM |
| M08.961 | Juvenile arthritis, unspecified, right knee                           | Diagnosis     | ICD-10-CM |
| M08.962 | Juvenile arthritis, unspecified, left knee                            | Diagnosis     | ICD-10-CM |
| M08.969 | Juvenile arthritis, unspecified, unspecified knee                     | Diagnosis     | ICD-10-CM |
| M08.97  | Juvenile arthritis, unspecified, ankle and foot                       | Diagnosis     | ICD-10-CM |
| M08.971 | Juvenile arthritis, unspecified, right ankle and foot                 | Diagnosis     | ICD-10-CM |
| M08.972 | Juvenile arthritis, unspecified, left ankle and foot                  | Diagnosis     | ICD-10-CM |
| M08.979 | Juvenile arthritis, unspecified, unspecified ankle and foot           | Diagnosis     | ICD-10-CM |
| M08.98  | Juvenile arthritis, unspecified, vertebrae                            | Diagnosis     | ICD-10-CM |
| M08.99  | Juvenile arthritis, unspecified, multiple sites                       | Diagnosis     | ICD-10-CM |
| M08.9A  | Juvenile arthritis, unspecified, other specified site                 | Diagnosis     | ICD-10-CM |
| M32     | Systemic lupus erythematosus (SLE)                                    | Diagnosis     | ICD-10-CM |
| M32.0   | Drug-induced systemic lupus erythematosus                             | Diagnosis     | ICD-10-CM |
| M32.1   | Systemic lupus erythematosus with organ or system involvement         | Diagnosis     | ICD-10-CM |
| M32.10  | Systemic lupus erythematosus, organ or system involvement unspecified | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description  | Code Category | Code Type |
|--------|--|---------------|-----------|
| M32.11 | Endocarditis in systemic lupus erythematosus                                 | Diagnosis     | ICD-10-CM |
| M32.12 | Pericarditis in systemic lupus erythematosus                                 | Diagnosis     | ICD-10-CM |
| M32.13 | Lung involvement in systemic lupus erythematosus                             | Diagnosis     | ICD-10-CM |
| M32.14 | Glomerular disease in systemic lupus erythematosus                           | Diagnosis     | ICD-10-CM |
| M32.15 | Tubulo-interstitial nephropathy in systemic lupus erythematosus              | Diagnosis     | ICD-10-CM |
| M32.19 | Other organ or system involvement in systemic lupus erythematosus            | Diagnosis     | ICD-10-CM |
| M32.8  | Other forms of systemic lupus erythematosus                                  | Diagnosis     | ICD-10-CM |
| M32.9  | Systemic lupus erythematosus, unspecified                                    | Diagnosis     | ICD-10-CM |
| M45    | Ankylosing spondylitis   | Diagnosis     | ICD-10-CM |
| M45.0  | Ankylosing spondylitis of multiple sites in spine                            | Diagnosis     | ICD-10-CM |
| M45.1  | Ankylosing spondylitis of occipito-atlanto-axial region                      | Diagnosis     | ICD-10-CM |
| M45.2  | Ankylosing spondylitis of cervical region                                    | Diagnosis     | ICD-10-CM |
| M45.3  | Ankylosing spondylitis of cervicothoracic region                             | Diagnosis     | ICD-10-CM |
| M45.4  | Ankylosing spondylitis of thoracic region                                    | Diagnosis     | ICD-10-CM |
| M45.5  | Ankylosing spondylitis of thoracolumbar region                               | Diagnosis     | ICD-10-CM |
| M45.6  | Ankylosing spondylitis lumbar region   | Diagnosis     | ICD-10-CM |
| M45.7  | Ankylosing spondylitis of lumbosacral region                                 | Diagnosis     | ICD-10-CM |
| M45.8  | Ankylosing spondylitis sacral and sacrococcygeal region                      | Diagnosis     | ICD-10-CM |
| M45.9  | Ankylosing spondylitis of unspecified sites in spine                         | Diagnosis     | ICD-10-CM |
| M45.A  | Non-radiographic axial spondyloarthritis                                     | Diagnosis     | ICD-10-CM |
| M45.A0 | Non-radiographic axial spondyloarthritis of unspecified sites in spine       | Diagnosis     | ICD-10-CM |
| M45.A1 | Non-radiographic axial spondyloarthritis of occipito-atlanto-axial region    | Diagnosis     | ICD-10-CM |
| M45.A2 | Non-radiographic axial spondyloarthritis of cervical region                  | Diagnosis     | ICD-10-CM |
| M45.A3 | Non-radiographic axial spondyloarthritis of cervicothoracic region           | Diagnosis     | ICD-10-CM |
| M45.A4 | Non-radiographic axial spondyloarthritis of thoracic region                  | Diagnosis     | ICD-10-CM |
| M45.A5 | Non-radiographic axial spondyloarthritis of thoracolumbar region             | Diagnosis     | ICD-10-CM |
| M45.A6 | Non-radiographic axial spondyloarthritis of lumbar region                    | Diagnosis     | ICD-10-CM |
| M45.A7 | Non-radiographic axial spondyloarthritis of lumbosacral region               | Diagnosis     | ICD-10-CM |
| M45.A8 | Non-radiographic axial spondyloarthritis of sacral and sacrococcygeal region | Diagnosis     | ICD-10-CM |
| M45.AB | Non-radiographic axial spondyloarthritis of multiple sites in spine          | Diagnosis     | ICD-10-CM |
| M46    | Other inflammatory spondylopathies   | Diagnosis     | ICD-10-CM |
| M46.0  | Spinal enthesopathy  | Diagnosis     | ICD-10-CM |
| M46.00 | Spinal enthesopathy, site unspecified  | Diagnosis     | ICD-10-CM |
| M46.01 | Spinal enthesopathy, occipito-atlanto-axial region                           | Diagnosis     | ICD-10-CM |
| M46.02 | Spinal enthesopathy, cervical region   | Diagnosis     | ICD-10-CM |
| M46.03 | Spinal enthesopathy, cervicothoracic region                                  | Diagnosis     | ICD-10-CM |
| M46.04 | Spinal enthesopathy, thoracic region   | Diagnosis     | ICD-10-CM |
| M46.05 | Spinal enthesopathy, thoracolumbar region                                    | Diagnosis     | ICD-10-CM |
| M46.06 | Spinal enthesopathy, lumbar region   | Diagnosis     | ICD-10-CM |
| M46.07 | Spinal enthesopathy, lumbosacral region                                      | Diagnosis     | ICD-10-CM |
| M46.08 | Spinal enthesopathy, sacral and sacrococcygeal region                        | Diagnosis     | ICD-10-CM |
| M46.09 | Spinal enthesopathy, multiple sites in spine                                 | Diagnosis     | ICD-10-CM |
| M46.1  | Sacroiliitis, not elsewhere classified                                       | Diagnosis     | ICD-10-CM |
| M46.2  | Osteomyelitis of vertebra  | Diagnosis     | ICD-10-CM |
| M46.20 | Osteomyelitis of vertebra, site unspecified                                  | Diagnosis     | ICD-10-CM |
| M46.21 | Osteomyelitis of vertebra, occipito-atlanto-axial region                     | Diagnosis     | ICD-10-CM |
| M46.22 | Osteomyelitis of vertebra, cervical region                                   | Diagnosis     | ICD-10-CM |
| M46.23 | Osteomyelitis of vertebra, cervicothoracic region                            | Diagnosis     | ICD-10-CM |
| M46.24 | Osteomyelitis of vertebra, thoracic region                                   | Diagnosis     | ICD-10-CM |
| M46.25 | Osteomyelitis of vertebra, thoracolumbar region                              | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code   | Description  | Code Category | Code Type |
|--------|--|---------------|-----------|
| M46.26 | Osteomyelitis of vertebra, lumbar region                                       | Diagnosis     | ICD-10-CM |
| M46.27 | Osteomyelitis of vertebra, lumbosacral region                                  | Diagnosis     | ICD-10-CM |
| M46.28 | Osteomyelitis of vertebra, sacral and sacrococcygeal region                    | Diagnosis     | ICD-10-CM |
| M46.3  | Infection of intervertebral disc (pyogenic)                                    | Diagnosis     | ICD-10-CM |
| M46.30 | Infection of intervertebral disc (pyogenic), site unspecified                  | Diagnosis     | ICD-10-CM |
| M46.31 | Infection of intervertebral disc (pyogenic), occipito-atlanto-axial region     | Diagnosis     | ICD-10-CM |
| M46.32 | Infection of intervertebral disc (pyogenic), cervical region                   | Diagnosis     | ICD-10-CM |
| M46.33 | Infection of intervertebral disc (pyogenic), cervicothoracic region            | Diagnosis     | ICD-10-CM |
| M46.34 | Infection of intervertebral disc (pyogenic), thoracic region                   | Diagnosis     | ICD-10-CM |
| M46.35 | Infection of intervertebral disc (pyogenic), thoracolumbar region              | Diagnosis     | ICD-10-CM |
| M46.36 | Infection of intervertebral disc (pyogenic), lumbar region                     | Diagnosis     | ICD-10-CM |
| M46.37 | Infection of intervertebral disc (pyogenic), lumbosacral region                | Diagnosis     | ICD-10-CM |
| M46.38 | Infection of intervertebral disc (pyogenic), sacral and sacrococcygeal region  | Diagnosis     | ICD-10-CM |
| M46.39 | Infection of intervertebral disc (pyogenic), multiple sites in spine           | Diagnosis     | ICD-10-CM |
| M46.4  | Discitis, unspecified  | Diagnosis     | ICD-10-CM |
| M46.40 | Discitis, unspecified, site unspecified  | Diagnosis     | ICD-10-CM |
| M46.41 | Discitis, unspecified, occipito-atlanto-axial region                           | Diagnosis     | ICD-10-CM |
| M46.42 | Discitis, unspecified, cervical region   | Diagnosis     | ICD-10-CM |
| M46.43 | Discitis, unspecified, cervicothoracic region                                  | Diagnosis     | ICD-10-CM |
| M46.44 | Discitis, unspecified, thoracic region   | Diagnosis     | ICD-10-CM |
| M46.45 | Discitis, unspecified, thoracolumbar region                                    | Diagnosis     | ICD-10-CM |
| M46.46 | Discitis, unspecified, lumbar region   | Diagnosis     | ICD-10-CM |
| M46.47 | Discitis, unspecified, lumbosacral region                                      | Diagnosis     | ICD-10-CM |
| M46.48 | Discitis, unspecified, sacral and sacrococcygeal region                        | Diagnosis     | ICD-10-CM |
| M46.49 | Discitis, unspecified, multiple sites in spine                                 | Diagnosis     | ICD-10-CM |
| M46.5  | Other infective spondylopathies  | Diagnosis     | ICD-10-CM |
| M46.50 | Other infective spondylopathies, site unspecified                              | Diagnosis     | ICD-10-CM |
| M46.51 | Other infective spondylopathies, occipito-atlanto-axial region                 | Diagnosis     | ICD-10-CM |
| M46.52 | Other infective spondylopathies, cervical region                               | Diagnosis     | ICD-10-CM |
| M46.53 | Other infective spondylopathies, cervicothoracic region                        | Diagnosis     | ICD-10-CM |
| M46.54 | Other infective spondylopathies, thoracic region                               | Diagnosis     | ICD-10-CM |
| M46.55 | Other infective spondylopathies, thoracolumbar region                          | Diagnosis     | ICD-10-CM |
| M46.56 | Other infective spondylopathies, lumbar region                                 | Diagnosis     | ICD-10-CM |
| M46.57 | Other infective spondylopathies, lumbosacral region                            | Diagnosis     | ICD-10-CM |
| M46.58 | Other infective spondylopathies, sacral and sacrococcygeal region              | Diagnosis     | ICD-10-CM |
| M46.59 | Other infective spondylopathies, multiple sites in spine                       | Diagnosis     | ICD-10-CM |
| M46.8  | Other specified inflammatory spondylopathies                                   | Diagnosis     | ICD-10-CM |
| M46.80 | Other specified inflammatory spondylopathies, site unspecified                 | Diagnosis     | ICD-10-CM |
| M46.81 | Other specified inflammatory spondylopathies, occipito-atlanto-axial region    | Diagnosis     | ICD-10-CM |
| M46.82 | Other specified inflammatory spondylopathies, cervical region                  | Diagnosis     | ICD-10-CM |
| M46.83 | Other specified inflammatory spondylopathies, cervicothoracic region           | Diagnosis     | ICD-10-CM |
| M46.84 | Other specified inflammatory spondylopathies, thoracic region                  | Diagnosis     | ICD-10-CM |
| M46.85 | Other specified inflammatory spondylopathies, thoracolumbar region             | Diagnosis     | ICD-10-CM |
| M46.86 | Other specified inflammatory spondylopathies, lumbar region                    | Diagnosis     | ICD-10-CM |
| M46.87 | Other specified inflammatory spondylopathies, lumbosacral region               | Diagnosis     | ICD-10-CM |
| M46.88 | Other specified inflammatory spondylopathies, sacral and sacrococcygeal region | Diagnosis     | ICD-10-CM |
| M46.89 | Other specified inflammatory spondylopathies, multiple sites in spine          | Diagnosis     | ICD-10-CM |
| M46.9  | Unspecified inflammatory spondylopathy   | Diagnosis     | ICD-10-CM |
| M46.90 | Unspecified inflammatory spondylopathy, site unspecified                       | Diagnosis     | ICD-10-CM |
| M46.91 | Unspecified inflammatory spondylopathy, occipito-atlanto-axial region          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| M46.92  | Unspecified inflammatory spondylopathy, cervical region                        | Diagnosis     | ICD-10-CM |
| M46.93  | Unspecified inflammatory spondylopathy, cervicothoracic region                 | Diagnosis     | ICD-10-CM |
| M46.94  | Unspecified inflammatory spondylopathy, thoracic region                        | Diagnosis     | ICD-10-CM |
| M46.95  | Unspecified inflammatory spondylopathy, thoracolumbar region                   | Diagnosis     | ICD-10-CM |
| M46.96  | Unspecified inflammatory spondylopathy, lumbar region                          | Diagnosis     | ICD-10-CM |
| M46.97  | Unspecified inflammatory spondylopathy, lumbosacral region                     | Diagnosis     | ICD-10-CM |
| M46.98  | Unspecified inflammatory spondylopathy, sacral and sacrococcygeal region       | Diagnosis     | ICD-10-CM |
| M46.99  | Unspecified inflammatory spondylopathy, multiple sites in spine                | Diagnosis     | ICD-10-CM |
| M47     | Spondylosis  | Diagnosis     | ICD-10-CM |
| M47.0   | Anterior spinal and vertebral artery compression syndromes                     | Diagnosis     | ICD-10-CM |
| M47.01  | Anterior spinal artery compression syndromes                                   | Diagnosis     | ICD-10-CM |
| M47.011 | Anterior spinal artery compression syndromes, occipito-atlanto-axial region    | Diagnosis     | ICD-10-CM |
| M47.012 | Anterior spinal artery compression syndromes, cervical region                  | Diagnosis     | ICD-10-CM |
| M47.013 | Anterior spinal artery compression syndromes, cervicothoracic region           | Diagnosis     | ICD-10-CM |
| M47.014 | Anterior spinal artery compression syndromes, thoracic region                  | Diagnosis     | ICD-10-CM |
| M47.015 | Anterior spinal artery compression syndromes, thoracolumbar region             | Diagnosis     | ICD-10-CM |
| M47.016 | Anterior spinal artery compression syndromes, lumbar region                    | Diagnosis     | ICD-10-CM |
| M47.019 | Anterior spinal artery compression syndromes, site unspecified                 | Diagnosis     | ICD-10-CM |
| M47.02  | Vertebral artery compression syndromes   | Diagnosis     | ICD-10-CM |
| M47.021 | Vertebral artery compression syndromes, occipito-atlanto-axial region          | Diagnosis     | ICD-10-CM |
| M47.022 | Vertebral artery compression syndromes, cervical region                        | Diagnosis     | ICD-10-CM |
| M47.029 | Vertebral artery compression syndromes, site unspecified                       | Diagnosis     | ICD-10-CM |
| M47.1   | Other spondylosis with myelopathy  | Diagnosis     | ICD-10-CM |
| M47.10  | Other spondylosis with myelopathy, site unspecified                            | Diagnosis     | ICD-10-CM |
| M47.11  | Other spondylosis with myelopathy, occipito-atlanto-axial region               | Diagnosis     | ICD-10-CM |
| M47.12  | Other spondylosis with myelopathy, cervical region                             | Diagnosis     | ICD-10-CM |
| M47.13  | Other spondylosis with myelopathy, cervicothoracic region                      | Diagnosis     | ICD-10-CM |
| M47.14  | Other spondylosis with myelopathy, thoracic region                             | Diagnosis     | ICD-10-CM |
| M47.15  | Other spondylosis with myelopathy, thoracolumbar region                        | Diagnosis     | ICD-10-CM |
| M47.16  | Other spondylosis with myelopathy, lumbar region                               | Diagnosis     | ICD-10-CM |
| M47.17  | Other spondylosis with myelopathy, lumbosacral region                          | Diagnosis     | ICD-10-CM |
| M47.18  | Other spondylosis with myelopathy, sacral and sacrococcygeal region            | Diagnosis     | ICD-10-CM |
| M47.2   | Other spondylosis with radiculopathy   | Diagnosis     | ICD-10-CM |
| M47.20  | Other spondylosis with radiculopathy, site unspecified                         | Diagnosis     | ICD-10-CM |
| M47.21  | Other spondylosis with radiculopathy, occipito-atlanto-axial region            | Diagnosis     | ICD-10-CM |
| M47.22  | Other spondylosis with radiculopathy, cervical region                          | Diagnosis     | ICD-10-CM |
| M47.23  | Other spondylosis with radiculopathy, cervicothoracic region                   | Diagnosis     | ICD-10-CM |
| M47.24  | Other spondylosis with radiculopathy, thoracic region                          | Diagnosis     | ICD-10-CM |
| M47.25  | Other spondylosis with radiculopathy, thoracolumbar region                     | Diagnosis     | ICD-10-CM |
| M47.26  | Other spondylosis with radiculopathy, lumbar region                            | Diagnosis     | ICD-10-CM |
| M47.27  | Other spondylosis with radiculopathy, lumbosacral region                       | Diagnosis     | ICD-10-CM |
| M47.28  | Other spondylosis with radiculopathy, sacral and sacrococcygeal region         | Diagnosis     | ICD-10-CM |
| M47.8   | Other spondylosis  | Diagnosis     | ICD-10-CM |
| M47.81  | Spondylosis without myelopathy or radiculopathy                                | Diagnosis     | ICD-10-CM |
| M47.811 | Spondylosis without myelopathy or radiculopathy, occipito-atlanto-axial region | Diagnosis     | ICD-10-CM |
| M47.812 | Spondylosis without myelopathy or radiculopathy, cervical region               | Diagnosis     | ICD-10-CM |
| M47.813 | Spondylosis without myelopathy or radiculopathy, cervicothoracic region        | Diagnosis     | ICD-10-CM |
| M47.814 | Spondylosis without myelopathy or radiculopathy, thoracic region               | Diagnosis     | ICD-10-CM |
| M47.815 | Spondylosis without myelopathy or radiculopathy, thoracolumbar region          | Diagnosis     | ICD-10-CM |
| M47.816 | Spondylosis without myelopathy or radiculopathy, lumbar region                 | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| M47.817 | Spondylosis without myelopathy or radiculopathy, lumbosacral region               | Diagnosis     | ICD-10-CM |
| M47.818 | Spondylosis without myelopathy or radiculopathy, sacral and sacrococcygeal region | Diagnosis     | ICD-10-CM |
| M47.819 | Spondylosis without myelopathy or radiculopathy, site unspecified                 | Diagnosis     | ICD-10-CM |
| M47.89  | Other spondylosis   | Diagnosis     | ICD-10-CM |
| M47.891 | Other spondylosis, occipito-atlanto-axial region                                  | Diagnosis     | ICD-10-CM |
| M47.892 | Other spondylosis, cervical region  | Diagnosis     | ICD-10-CM |
| M47.893 | Other spondylosis, cervicothoracic region   | Diagnosis     | ICD-10-CM |
| M47.894 | Other spondylosis, thoracic region  | Diagnosis     | ICD-10-CM |
| M47.895 | Other spondylosis, thoracolumbar region   | Diagnosis     | ICD-10-CM |
| M47.896 | Other spondylosis, lumbar region  | Diagnosis     | ICD-10-CM |
| M47.897 | Other spondylosis, lumbosacral region   | Diagnosis     | ICD-10-CM |
| M47.898 | Other spondylosis, sacral and sacrococcygeal region                               | Diagnosis     | ICD-10-CM |
| M47.899 | Other spondylosis, site unspecified   | Diagnosis     | ICD-10-CM |
| M47.9   | Spondylosis, unspecified  | Diagnosis     | ICD-10-CM |
| M48     | Other spondylopathies   | Diagnosis     | ICD-10-CM |
| M48.0   | Spinal stenosis   | Diagnosis     | ICD-10-CM |
| M48.00  | Spinal stenosis, site unspecified   | Diagnosis     | ICD-10-CM |
| M48.01  | Spinal stenosis, occipito-atlanto-axial region                                    | Diagnosis     | ICD-10-CM |
| M48.02  | Spinal stenosis, cervical region  | Diagnosis     | ICD-10-CM |
| M48.03  | Spinal stenosis, cervicothoracic region   | Diagnosis     | ICD-10-CM |
| M48.04  | Spinal stenosis, thoracic region  | Diagnosis     | ICD-10-CM |
| M48.05  | Spinal stenosis, thoracolumbar region   | Diagnosis     | ICD-10-CM |
| M48.06  | Spinal stenosis, lumbar region  | Diagnosis     | ICD-10-CM |
| M48.061 | Spinal stenosis, lumbar region without neurogenic claudication                    | Diagnosis     | ICD-10-CM |
| M48.062 | Spinal stenosis, lumbar region with neurogenic claudication                       | Diagnosis     | ICD-10-CM |
| M48.07  | Spinal stenosis, lumbosacral region   | Diagnosis     | ICD-10-CM |
| M48.08  | Spinal stenosis, sacral and sacrococcygeal region                                 | Diagnosis     | ICD-10-CM |
| M48.1   | Ankylosing hyperostosis [Forestier]   | Diagnosis     | ICD-10-CM |
| M48.10  | Ankylosing hyperostosis [Forestier], site unspecified                             | Diagnosis     | ICD-10-CM |
| M48.11  | Ankylosing hyperostosis [Forestier], occipito-atlanto-axial region                | Diagnosis     | ICD-10-CM |
| M48.12  | Ankylosing hyperostosis [Forestier], cervical region                              | Diagnosis     | ICD-10-CM |
| M48.13  | Ankylosing hyperostosis [Forestier], cervicothoracic region                       | Diagnosis     | ICD-10-CM |
| M48.14  | Ankylosing hyperostosis [Forestier], thoracic region                              | Diagnosis     | ICD-10-CM |
| M48.15  | Ankylosing hyperostosis [Forestier], thoracolumbar region                         | Diagnosis     | ICD-10-CM |
| M48.16  | Ankylosing hyperostosis [Forestier], lumbar region                                | Diagnosis     | ICD-10-CM |
| M48.17  | Ankylosing hyperostosis [Forestier], lumbosacral region                           | Diagnosis     | ICD-10-CM |
| M48.18  | Ankylosing hyperostosis [Forestier], sacral and sacrococcygeal region             | Diagnosis     | ICD-10-CM |
| M48.19  | Ankylosing hyperostosis [Forestier], multiple sites in spine                      | Diagnosis     | ICD-10-CM |
| M48.2   | Kissing spine   | Diagnosis     | ICD-10-CM |
| M48.20  | Kissing spine, site unspecified   | Diagnosis     | ICD-10-CM |
| M48.21  | Kissing spine, occipito-atlanto-axial region                                      | Diagnosis     | ICD-10-CM |
| M48.22  | Kissing spine, cervical region  | Diagnosis     | ICD-10-CM |
| M48.23  | Kissing spine, cervicothoracic region   | Diagnosis     | ICD-10-CM |
| M48.24  | Kissing spine, thoracic region  | Diagnosis     | ICD-10-CM |
| M48.25  | Kissing spine, thoracolumbar region   | Diagnosis     | ICD-10-CM |
| M48.26  | Kissing spine, lumbar region  | Diagnosis     | ICD-10-CM |
| M48.27  | Kissing spine, lumbosacral region   | Diagnosis     | ICD-10-CM |
| M48.3   | Traumatic spondylopathy   | Diagnosis     | ICD-10-CM |
| M48.30  | Traumatic spondylopathy, site unspecified   | Diagnosis     | ICD-10-CM |
| M48.31  | Traumatic spondylopathy, occipito-atlanto-axial region                            | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| M48.32   | Traumatic spondylopathy, cervical region  | Diagnosis     | ICD-10-CM |
| M48.33   | Traumatic spondylopathy, cervicothoracic region   | Diagnosis     | ICD-10-CM |
| M48.34   | Traumatic spondylopathy, thoracic region  | Diagnosis     | ICD-10-CM |
| M48.35   | Traumatic spondylopathy, thoracolumbar region   | Diagnosis     | ICD-10-CM |
| M48.36   | Traumatic spondylopathy, lumbar region  | Diagnosis     | ICD-10-CM |
| M48.37   | Traumatic spondylopathy, lumbosacral region   | Diagnosis     | ICD-10-CM |
| M48.38   | Traumatic spondylopathy, sacral and sacrococcygeal region   | Diagnosis     | ICD-10-CM |
| M48.4    | Fatigue fracture of vertebra  | Diagnosis     | ICD-10-CM |
| M48.40   | Fatigue fracture of vertebra, site unspecified  | Diagnosis     | ICD-10-CM |
| M48.40XA | Fatigue fracture of vertebra, site unspecified, initial encounter for fracture                                      | Diagnosis     | ICD-10-CM |
| M48.40XD | Fatigue fracture of vertebra, site unspecified, subsequent encounter for fracture with routine healing              | Diagnosis     | ICD-10-CM |
| M48.40XG | Fatigue fracture of vertebra, site unspecified, subsequent encounter for fracture with delayed healing              | Diagnosis     | ICD-10-CM |
| M48.40XS | Fatigue fracture of vertebra, site unspecified, sequela of fracture   | Diagnosis     | ICD-10-CM |
| M48.41   | Fatigue fracture of vertebra, occipito-atlanto-axial region   | Diagnosis     | ICD-10-CM |
| M48.41XA | Fatigue fracture of vertebra, occipito-atlanto-axial region, initial encounter for fracture                         | Diagnosis     | ICD-10-CM |
| M48.41XD | Fatigue fracture of vertebra, occipito-atlanto-axial region, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| M48.41XG | Fatigue fracture of vertebra, occipito-atlanto-axial region, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| M48.41XS | Fatigue fracture of vertebra, occipito-atlanto-axial region, sequela of fracture                                    | Diagnosis     | ICD-10-CM |
| M48.42   | Fatigue fracture of vertebra, cervical region   | Diagnosis     | ICD-10-CM |
| M48.42XA | Fatigue fracture of vertebra, cervical region, initial encounter for fracture                                       | Diagnosis     | ICD-10-CM |
| M48.42XD | Fatigue fracture of vertebra, cervical region, subsequent encounter for fracture with routine healing               | Diagnosis     | ICD-10-CM |
| M48.42XG | Fatigue fracture of vertebra, cervical region, subsequent encounter for fracture with delayed healing               | Diagnosis     | ICD-10-CM |
| M48.42XS | Fatigue fracture of vertebra, cervical region, sequela of fracture  | Diagnosis     | ICD-10-CM |
| M48.43   | Fatigue fracture of vertebra, cervicothoracic region  | Diagnosis     | ICD-10-CM |
| M48.43XA | Fatigue fracture of vertebra, cervicothoracic region, initial encounter for fracture                                | Diagnosis     | ICD-10-CM |
| M48.43XD | Fatigue fracture of vertebra, cervicothoracic region, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |
| M48.43XG | Fatigue fracture of vertebra, cervicothoracic region, subsequent encounter for fracture with delayed healing        | Diagnosis     | ICD-10-CM |
| M48.43XS | Fatigue fracture of vertebra, cervicothoracic region, sequela of fracture   | Diagnosis     | ICD-10-CM |
| M48.44   | Fatigue fracture of vertebra, thoracic region   | Diagnosis     | ICD-10-CM |
| M48.44XA | Fatigue fracture of vertebra, thoracic region, initial encounter for fracture                                       | Diagnosis     | ICD-10-CM |
| M48.44XD | Fatigue fracture of vertebra, thoracic region, subsequent encounter for fracture with routine healing               | Diagnosis     | ICD-10-CM |
| M48.44XG | Fatigue fracture of vertebra, thoracic region, subsequent encounter for fracture with delayed healing               | Diagnosis     | ICD-10-CM |
| M48.44XS | Fatigue fracture of vertebra, thoracic region, sequela of fracture  | Diagnosis     | ICD-10-CM |
| M48.45   | Fatigue fracture of vertebra, thoracolumbar region  | Diagnosis     | ICD-10-CM |
| M48.45XA | Fatigue fracture of vertebra, thoracolumbar region, initial encounter for fracture                                  | Diagnosis     | ICD-10-CM |
| M48.45XD | Fatigue fracture of vertebra, thoracolumbar region, subsequent encounter for fracture with routine healing          | Diagnosis     | ICD-10-CM |
| M48.45XG | Fatigue fracture of vertebra, thoracolumbar region, subsequent encounter for fracture with delayed healing          | Diagnosis     | ICD-10-CM |
| M48.45XS | Fatigue fracture of vertebra, thoracolumbar region, sequela of fracture   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| M48.46   | Fatigue fracture of vertebra, lumbar region   | Diagnosis     | ICD-10-CM |
| M48.46XA | Fatigue fracture of vertebra, lumbar region, initial encounter for fracture   | Diagnosis     | ICD-10-CM |
| M48.46XD | Fatigue fracture of vertebra, lumbar region, subsequent encounter for fracture with routine healing                                 | Diagnosis     | ICD-10-CM |
| M48.46XG | Fatigue fracture of vertebra, lumbar region, subsequent encounter for fracture with delayed healing                                 | Diagnosis     | ICD-10-CM |
| M48.46XS | Fatigue fracture of vertebra, lumbar region, sequela of fracture  | Diagnosis     | ICD-10-CM |
| M48.47   | Fatigue fracture of vertebra, lumbosacral region  | Diagnosis     | ICD-10-CM |
| M48.47XA | Fatigue fracture of vertebra, lumbosacral region, initial encounter for fracture  | Diagnosis     | ICD-10-CM |
| M48.47XD | Fatigue fracture of vertebra, lumbosacral region, subsequent encounter for fracture with routine healing                            | Diagnosis     | ICD-10-CM |
| M48.47XG | Fatigue fracture of vertebra, lumbosacral region, subsequent encounter for fracture with delayed healing                            | Diagnosis     | ICD-10-CM |
| M48.47XS | Fatigue fracture of vertebra, lumbosacral region, sequela of fracture   | Diagnosis     | ICD-10-CM |
| M48.48   | Fatigue fracture of vertebra, sacral and sacrococcygeal region  | Diagnosis     | ICD-10-CM |
| M48.48XA | Fatigue fracture of vertebra, sacral and sacrococcygeal region, initial encounter for fracture                                      | Diagnosis     | ICD-10-CM |
| M48.48XD | Fatigue fracture of vertebra, sacral and sacrococcygeal region, subsequent encounter for fracture with routine healing              | Diagnosis     | ICD-10-CM |
| M48.48XG | Fatigue fracture of vertebra, sacral and sacrococcygeal region, subsequent encounter for fracture with delayed healing              | Diagnosis     | ICD-10-CM |
| M48.48XS | Fatigue fracture of vertebra, sacral and sacrococcygeal region, sequela of fracture   | Diagnosis     | ICD-10-CM |
| M48.5    | Collapsed vertebra, not elsewhere classified  | Diagnosis     | ICD-10-CM |
| M48.50   | Collapsed vertebra, not elsewhere classified, site unspecified  | Diagnosis     | ICD-10-CM |
| M48.50XA | Collapsed vertebra, not elsewhere classified, site unspecified, initial encounter for fracture                                      | Diagnosis     | ICD-10-CM |
| M48.50XD | Collapsed vertebra, not elsewhere classified, site unspecified, subsequent encounter for fracture with routine healing              | Diagnosis     | ICD-10-CM |
| M48.50XG | Collapsed vertebra, not elsewhere classified, site unspecified, subsequent encounter for fracture with delayed healing              | Diagnosis     | ICD-10-CM |
| M48.50XS | Collapsed vertebra, not elsewhere classified, site unspecified, sequela of fracture   | Diagnosis     | ICD-10-CM |
| M48.51   | Collapsed vertebra, not elsewhere classified, occipito-atlanto-axial region   | Diagnosis     | ICD-10-CM |
| M48.51XA | Collapsed vertebra, not elsewhere classified, occipito-atlanto-axial region, initial encounter for fracture                         | Diagnosis     | ICD-10-CM |
| M48.51XD | Collapsed vertebra, not elsewhere classified, occipito-atlanto-axial region, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| M48.51XG | Collapsed vertebra, not elsewhere classified, occipito-atlanto-axial region, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| M48.51XS | Collapsed vertebra, not elsewhere classified, occipito-atlanto-axial region, sequela of fracture                                    | Diagnosis     | ICD-10-CM |
| M48.52   | Collapsed vertebra, not elsewhere classified, cervical region   | Diagnosis     | ICD-10-CM |
| M48.52XA | Collapsed vertebra, not elsewhere classified, cervical region, initial encounter for fracture                                       | Diagnosis     | ICD-10-CM |
| M48.52XD | Collapsed vertebra, not elsewhere classified, cervical region, subsequent encounter for fracture with routine healing               | Diagnosis     | ICD-10-CM |
| M48.52XG | Collapsed vertebra, not elsewhere classified, cervical region, subsequent encounter for fracture with delayed healing               | Diagnosis     | ICD-10-CM |
| M48.52XS | Collapsed vertebra, not elsewhere classified, cervical region, sequela of fracture  | Diagnosis     | ICD-10-CM |
| M48.53   | Collapsed vertebra, not elsewhere classified, cervicothoracic region  | Diagnosis     | ICD-10-CM |
| M48.53XA | Collapsed vertebra, not elsewhere classified, cervicothoracic region, initial encounter for fracture                                | Diagnosis     | ICD-10-CM |
| M48.53XD | Collapsed vertebra, not elsewhere classified, cervicothoracic region, subsequent encounter for fracture with routine healing        | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| M48.53XG | Collapsed vertebra, not elsewhere classified, cervicothoracic region, subsequent encounter for fracture with delayed healing           | Diagnosis     | ICD-10-CM |
| M48.53XS | Collapsed vertebra, not elsewhere classified, cervicothoracic region, sequela of fracture  | Diagnosis     | ICD-10-CM |
| M48.54   | Collapsed vertebra, not elsewhere classified, thoracic region  | Diagnosis     | ICD-10-CM |
| M48.54XA | Collapsed vertebra, not elsewhere classified, thoracic region, initial encounter for fracture  | Diagnosis     | ICD-10-CM |
| M48.54XD | Collapsed vertebra, not elsewhere classified, thoracic region, subsequent encounter for fracture with routine healing                  | Diagnosis     | ICD-10-CM |
| M48.54XG | Collapsed vertebra, not elsewhere classified, thoracic region, subsequent encounter for fracture with delayed healing                  | Diagnosis     | ICD-10-CM |
| M48.54XS | Collapsed vertebra, not elsewhere classified, thoracic region, sequela of fracture   | Diagnosis     | ICD-10-CM |
| M48.55   | Collapsed vertebra, not elsewhere classified, thoracolumbar region   | Diagnosis     | ICD-10-CM |
| M48.55XA | Collapsed vertebra, not elsewhere classified, thoracolumbar region, initial encounter for fracture                                     | Diagnosis     | ICD-10-CM |
| M48.55XD | Collapsed vertebra, not elsewhere classified, thoracolumbar region, subsequent encounter for fracture with routine healing             | Diagnosis     | ICD-10-CM |
| M48.55XG | Collapsed vertebra, not elsewhere classified, thoracolumbar region, subsequent encounter for fracture with delayed healing             | Diagnosis     | ICD-10-CM |
| M48.55XS | Collapsed vertebra, not elsewhere classified, thoracolumbar region, sequela of fracture  | Diagnosis     | ICD-10-CM |
| M48.56   | Collapsed vertebra, not elsewhere classified, lumbar region  | Diagnosis     | ICD-10-CM |
| M48.56XA | Collapsed vertebra, not elsewhere classified, lumbar region, initial encounter for fracture  | Diagnosis     | ICD-10-CM |
| M48.56XD | Collapsed vertebra, not elsewhere classified, lumbar region, subsequent encounter for fracture with routine healing                    | Diagnosis     | ICD-10-CM |
| M48.56XG | Collapsed vertebra, not elsewhere classified, lumbar region, subsequent encounter for fracture with delayed healing                    | Diagnosis     | ICD-10-CM |
| M48.56XS | Collapsed vertebra, not elsewhere classified, lumbar region, sequela of fracture   | Diagnosis     | ICD-10-CM |
| M48.57   | Collapsed vertebra, not elsewhere classified, lumbosacral region   | Diagnosis     | ICD-10-CM |
| M48.57XA | Collapsed vertebra, not elsewhere classified, lumbosacral region, initial encounter for fracture                                       | Diagnosis     | ICD-10-CM |
| M48.57XD | Collapsed vertebra, not elsewhere classified, lumbosacral region, subsequent encounter for fracture with routine healing               | Diagnosis     | ICD-10-CM |
| M48.57XG | Collapsed vertebra, not elsewhere classified, lumbosacral region, subsequent encounter for fracture with delayed healing               | Diagnosis     | ICD-10-CM |
| M48.57XS | Collapsed vertebra, not elsewhere classified, lumbosacral region, sequela of fracture  | Diagnosis     | ICD-10-CM |
| M48.58   | Collapsed vertebra, not elsewhere classified, sacral and sacrococcygeal region   | Diagnosis     | ICD-10-CM |
| M48.58XA | Collapsed vertebra, not elsewhere classified, sacral and sacrococcygeal region, initial encounter for fracture                         | Diagnosis     | ICD-10-CM |
| M48.58XD | Collapsed vertebra, not elsewhere classified, sacral and sacrococcygeal region, subsequent encounter for fracture with routine healing | Diagnosis     | ICD-10-CM |
| M48.58XG | Collapsed vertebra, not elsewhere classified, sacral and sacrococcygeal region, subsequent encounter for fracture with delayed healing | Diagnosis     | ICD-10-CM |
| M48.58XS | Collapsed vertebra, not elsewhere classified, sacral and sacrococcygeal region, sequela of fracture                                    | Diagnosis     | ICD-10-CM |
| M48.8    | Other specified spondylopathies  | Diagnosis     | ICD-10-CM |
| M48.8X   | Other specified spondylopathies  | Diagnosis     | ICD-10-CM |
| M48.8X1  | Other specified spondylopathies, occipito-atlanto-axial region   | Diagnosis     | ICD-10-CM |
| M48.8X2  | Other specified spondylopathies, cervical region   | Diagnosis     | ICD-10-CM |
| M48.8X3  | Other specified spondylopathies, cervicothoracic region  | Diagnosis     | ICD-10-CM |
| M48.8X4  | Other specified spondylopathies, thoracic region   | Diagnosis     | ICD-10-CM |
| M48.8X5  | Other specified spondylopathies, thoracolumbar region  | Diagnosis     | ICD-10-CM |
| M48.8X6  | Other specified spondylopathies, lumbar region   | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code                   | Description   | Code Category | Code Type |
|------------------------|---|---------------|-----------|
| M48.8X7                | Other specified spondylopathies, lumbosacral region                                 | Diagnosis     | ICD-10-CM |
| M48.8X8                | Other specified spondylopathies, sacral and sacrococcygeal region                   | Diagnosis     | ICD-10-CM |
| M48.8X9                | Other specified spondylopathies, site unspecified                                   | Diagnosis     | ICD-10-CM |
| M48.9                  | Spondylopathy, unspecified  | Diagnosis     | ICD-10-CM |
| M49                    | Spondylopathies in diseases classified elsewhere                                    | Diagnosis     | ICD-10-CM |
| M49.8                  | Spondylopathy in diseases classified elsewhere                                      | Diagnosis     | ICD-10-CM |
| M49.80                 | Spondylopathy in diseases classified elsewhere, site unspecified                    | Diagnosis     | ICD-10-CM |
| M49.81                 | Spondylopathy in diseases classified elsewhere, occipito-atlanto-axial region       | Diagnosis     | ICD-10-CM |
| M49.82                 | Spondylopathy in diseases classified elsewhere, cervical region                     | Diagnosis     | ICD-10-CM |
| M49.83                 | Spondylopathy in diseases classified elsewhere, cervicothoracic region              | Diagnosis     | ICD-10-CM |
| M49.84                 | Spondylopathy in diseases classified elsewhere, thoracic region                     | Diagnosis     | ICD-10-CM |
| M49.85                 | Spondylopathy in diseases classified elsewhere, thoracolumbar region                | Diagnosis     | ICD-10-CM |
| M49.86                 | Spondylopathy in diseases classified elsewhere, lumbar region                       | Diagnosis     | ICD-10-CM |
| M49.87                 | Spondylopathy in diseases classified elsewhere, lumbosacral region                  | Diagnosis     | ICD-10-CM |
| M49.88                 | Spondylopathy in diseases classified elsewhere, sacral and sacrococcygeal region    | Diagnosis     | ICD-10-CM |
| M49.89                 | Spondylopathy in diseases classified elsewhere, multiple sites in spine             | Diagnosis     | ICD-10-CM |
| <b>Sleep disorders</b> |   |               |           |
| F51.0                  | Insomnia not due to a substance or known physiological condition                    | Diagnosis     | ICD-10-CM |
| F51.01                 | Primary insomnia  | Diagnosis     | ICD-10-CM |
| F51.02                 | Adjustment insomnia   | Diagnosis     | ICD-10-CM |
| F51.03                 | Paradoxical insomnia  | Diagnosis     | ICD-10-CM |
| F51.04                 | Psychophysiologic insomnia  | Diagnosis     | ICD-10-CM |
| F51.05                 | Insomnia due to other mental disorder   | Diagnosis     | ICD-10-CM |
| F51.09                 | Other insomnia not due to a substance or known physiological condition              | Diagnosis     | ICD-10-CM |
| F51.1                  | Hypersomnia not due to a substance or known physiological condition                 | Diagnosis     | ICD-10-CM |
| F51.11                 | Primary hypersomnia   | Diagnosis     | ICD-10-CM |
| F51.12                 | Insufficient sleep syndrome   | Diagnosis     | ICD-10-CM |
| F51.13                 | Hypersomnia due to other mental disorder  | Diagnosis     | ICD-10-CM |
| F51.19                 | Other hypersomnia not due to a substance or known physiological condition           | Diagnosis     | ICD-10-CM |
| F51.3                  | Sleepwalking [somnambulism]   | Diagnosis     | ICD-10-CM |
| F51.4                  | Sleep terrors [night terrors]   | Diagnosis     | ICD-10-CM |
| F51.5                  | Nightmare disorder  | Diagnosis     | ICD-10-CM |
| F51.8                  | Other sleep disorders not due to a substance or known physiological condition       | Diagnosis     | ICD-10-CM |
| F51.9                  | Sleep disorder not due to a substance or known physiological condition, unspecified | Diagnosis     | ICD-10-CM |
| G47.0                  | Insomnia  | Diagnosis     | ICD-10-CM |
| G47.00                 | Insomnia, unspecified   | Diagnosis     | ICD-10-CM |
| G47.01                 | Insomnia due to medical condition   | Diagnosis     | ICD-10-CM |
| G47.09                 | Other insomnia  | Diagnosis     | ICD-10-CM |
| G47.1                  | Hypersomnia   | Diagnosis     | ICD-10-CM |
| G47.10                 | Hypersomnia, unspecified  | Diagnosis     | ICD-10-CM |
| G47.11                 | Idiopathic hypersomnia with long sleep time   | Diagnosis     | ICD-10-CM |
| G47.12                 | Idiopathic hypersomnia without long sleep time                                      | Diagnosis     | ICD-10-CM |
| G47.13                 | Recurrent hypersomnia   | Diagnosis     | ICD-10-CM |
| G47.14                 | Hypersomnia due to medical condition  | Diagnosis     | ICD-10-CM |
| G47.19                 | Other hypersomnia   | Diagnosis     | ICD-10-CM |
| G47.2                  | Circadian rhythm sleep disorders  | Diagnosis     | ICD-10-CM |
| G47.20                 | Circadian rhythm sleep disorder, unspecified type                                   | Diagnosis     | ICD-10-CM |
| G47.21                 | Circadian rhythm sleep disorder, delayed sleep phase type                           | Diagnosis     | ICD-10-CM |
| G47.22                 | Circadian rhythm sleep disorder, advanced sleep phase type                          | Diagnosis     | ICD-10-CM |
| G47.23                 | Circadian rhythm sleep disorder, irregular sleep wake type                          | Diagnosis     | ICD-10-CM |

**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code           | Description   | Code Category | Code Type |
|----------------|---|---------------|-----------|
| G47.24         | Circadian rhythm sleep disorder, free running type                            | Diagnosis     | ICD-10-CM |
| G47.25         | Circadian rhythm sleep disorder, jet lag type                                 | Diagnosis     | ICD-10-CM |
| G47.26         | Circadian rhythm sleep disorder, shift work type                              | Diagnosis     | ICD-10-CM |
| G47.27         | Circadian rhythm sleep disorder in conditions classified elsewhere            | Diagnosis     | ICD-10-CM |
| G47.29         | Other circadian rhythm sleep disorder   | Diagnosis     | ICD-10-CM |
| G47.3          | Sleep apnea   | Diagnosis     | ICD-10-CM |
| G47.30         | Sleep apnea, unspecified  | Diagnosis     | ICD-10-CM |
| G47.31         | Primary central sleep apnea   | Diagnosis     | ICD-10-CM |
| G47.32         | High altitude periodic breathing  | Diagnosis     | ICD-10-CM |
| G47.33         | Obstructive sleep apnea (adult) (pediatric)                                   | Diagnosis     | ICD-10-CM |
| G47.34         | Idiopathic sleep related nonobstructive alveolar hypoventilation              | Diagnosis     | ICD-10-CM |
| G47.35         | Congenital central alveolar hypoventilation syndrome                          | Diagnosis     | ICD-10-CM |
| G47.36         | Sleep related hypoventilation in conditions classified elsewhere              | Diagnosis     | ICD-10-CM |
| G47.37         | Central sleep apnea in conditions classified elsewhere                        | Diagnosis     | ICD-10-CM |
| G47.39         | Other sleep apnea   | Diagnosis     | ICD-10-CM |
| G47.4          | Narcolepsy and cataplexy  | Diagnosis     | ICD-10-CM |
| G47.41         | Narcolepsy  | Diagnosis     | ICD-10-CM |
| G47.411        | Narcolepsy with cataplexy   | Diagnosis     | ICD-10-CM |
| G47.419        | Narcolepsy without cataplexy  | Diagnosis     | ICD-10-CM |
| G47.42         | Narcolepsy in conditions classified elsewhere                                 | Diagnosis     | ICD-10-CM |
| G47.421        | Narcolepsy in conditions classified elsewhere with cataplexy                  | Diagnosis     | ICD-10-CM |
| G47.429        | Narcolepsy in conditions classified elsewhere without cataplexy               | Diagnosis     | ICD-10-CM |
| G47.5          | Parasomnia  | Diagnosis     | ICD-10-CM |
| G47.50         | Parasomnia, unspecified   | Diagnosis     | ICD-10-CM |
| G47.51         | Confusional arousals  | Diagnosis     | ICD-10-CM |
| G47.52         | REM sleep behavior disorder   | Diagnosis     | ICD-10-CM |
| G47.53         | Recurrent isolated sleep paralysis  | Diagnosis     | ICD-10-CM |
| G47.54         | Parasomnia in conditions classified elsewhere                                 | Diagnosis     | ICD-10-CM |
| G47.59         | Other parasomnia  | Diagnosis     | ICD-10-CM |
| G47.6          | Sleep related movement disorders  | Diagnosis     | ICD-10-CM |
| G47.61         | Periodic limb movement disorder   | Diagnosis     | ICD-10-CM |
| G47.62         | Sleep related leg cramps  | Diagnosis     | ICD-10-CM |
| G47.63         | Sleep related bruxism   | Diagnosis     | ICD-10-CM |
| G47.69         | Other sleep related movement disorders  | Diagnosis     | ICD-10-CM |
| G47.8          | Other sleep disorders   | Diagnosis     | ICD-10-CM |
| G47.9          | Sleep disorder, unspecified   | Diagnosis     | ICD-10-CM |
| <b>Smoking</b> |   |               |           |
| F17.2          | Nicotine dependence   | Diagnosis     | ICD-10-CM |
| F17.20         | Nicotine dependence, unspecified  | Diagnosis     | ICD-10-CM |
| F17.200        | Nicotine dependence, unspecified, uncomplicated                               | Diagnosis     | ICD-10-CM |
| F17.201        | Nicotine dependence, unspecified, in remission                                | Diagnosis     | ICD-10-CM |
| F17.203        | Nicotine dependence unspecified, with withdrawal                              | Diagnosis     | ICD-10-CM |
| F17.208        | Nicotine dependence, unspecified, with other nicotine-induced disorders       | Diagnosis     | ICD-10-CM |
| F17.209        | Nicotine dependence, unspecified, with unspecified nicotine-induced disorders | Diagnosis     | ICD-10-CM |
| F17.21         | Nicotine dependence, cigarettes   | Diagnosis     | ICD-10-CM |
| F17.210        | Nicotine dependence, cigarettes, uncomplicated                                | Diagnosis     | ICD-10-CM |
| F17.211        | Nicotine dependence, cigarettes, in remission                                 | Diagnosis     | ICD-10-CM |
| F17.213        | Nicotine dependence, cigarettes, with withdrawal                              | Diagnosis     | ICD-10-CM |
| F17.218        | Nicotine dependence, cigarettes, with other nicotine-induced disorders        | Diagnosis     | ICD-10-CM |
| F17.219        | Nicotine dependence, cigarettes, with unspecified nicotine-induced disorders  | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| F17.22   | Nicotine dependence, chewing tobacco  | Diagnosis     | ICD-10-CM |
| F17.220  | Nicotine dependence, chewing tobacco, uncomplicated                                       | Diagnosis     | ICD-10-CM |
| F17.221  | Nicotine dependence, chewing tobacco, in remission  | Diagnosis     | ICD-10-CM |
| F17.223  | Nicotine dependence, chewing tobacco, with withdrawal                                     | Diagnosis     | ICD-10-CM |
| F17.228  | Nicotine dependence, chewing tobacco, with other nicotine-induced disorders               | Diagnosis     | ICD-10-CM |
| F17.229  | Nicotine dependence, chewing tobacco, with unspecified nicotine-induced disorders         | Diagnosis     | ICD-10-CM |
| F17.29   | Nicotine dependence, other tobacco product  | Diagnosis     | ICD-10-CM |
| F17.290  | Nicotine dependence, other tobacco product, uncomplicated                                 | Diagnosis     | ICD-10-CM |
| F17.291  | Nicotine dependence, other tobacco product, in remission                                  | Diagnosis     | ICD-10-CM |
| F17.293  | Nicotine dependence, other tobacco product, with withdrawal                               | Diagnosis     | ICD-10-CM |
| F17.298  | Nicotine dependence, other tobacco product, with other nicotine-induced disorders         | Diagnosis     | ICD-10-CM |
| F17.299  | Nicotine dependence, other tobacco product, with unspecified nicotine-induced disorders   | Diagnosis     | ICD-10-CM |
| T65.2    | Toxic effect of tobacco and nicotine  | Diagnosis     | ICD-10-CM |
| T65.21   | Toxic effect of chewing tobacco   | Diagnosis     | ICD-10-CM |
| T65.211  | Toxic effect of chewing tobacco, accidental (unintentional)                               | Diagnosis     | ICD-10-CM |
| T65.211A | Toxic effect of chewing tobacco, accidental (unintentional), initial encounter            | Diagnosis     | ICD-10-CM |
| T65.211D | Toxic effect of chewing tobacco, accidental (unintentional), subsequent encounter         | Diagnosis     | ICD-10-CM |
| T65.211S | Toxic effect of chewing tobacco, accidental (unintentional), sequela                      | Diagnosis     | ICD-10-CM |
| T65.212  | Toxic effect of chewing tobacco, intentional self-harm                                    | Diagnosis     | ICD-10-CM |
| T65.212A | Toxic effect of chewing tobacco, intentional self-harm, initial encounter                 | Diagnosis     | ICD-10-CM |
| T65.212D | Toxic effect of chewing tobacco, intentional self-harm, subsequent encounter              | Diagnosis     | ICD-10-CM |
| T65.212S | Toxic effect of chewing tobacco, intentional self-harm, sequela                           | Diagnosis     | ICD-10-CM |
| T65.213  | Toxic effect of chewing tobacco, assault  | Diagnosis     | ICD-10-CM |
| T65.213A | Toxic effect of chewing tobacco, assault, initial encounter                               | Diagnosis     | ICD-10-CM |
| T65.213D | Toxic effect of chewing tobacco, assault, subsequent encounter                            | Diagnosis     | ICD-10-CM |
| T65.213S | Toxic effect of chewing tobacco, assault, sequela   | Diagnosis     | ICD-10-CM |
| T65.214  | Toxic effect of chewing tobacco, undetermined   | Diagnosis     | ICD-10-CM |
| T65.214A | Toxic effect of chewing tobacco, undetermined, initial encounter                          | Diagnosis     | ICD-10-CM |
| T65.214D | Toxic effect of chewing tobacco, undetermined, subsequent encounter                       | Diagnosis     | ICD-10-CM |
| T65.214S | Toxic effect of chewing tobacco, undetermined, sequela                                    | Diagnosis     | ICD-10-CM |
| T65.22   | Toxic effect of tobacco cigarettes  | Diagnosis     | ICD-10-CM |
| T65.221  | Toxic effect of tobacco cigarettes, accidental (unintentional)                            | Diagnosis     | ICD-10-CM |
| T65.221A | Toxic effect of tobacco cigarettes, accidental (unintentional), initial encounter         | Diagnosis     | ICD-10-CM |
| T65.221D | Toxic effect of tobacco cigarettes, accidental (unintentional), subsequent encounter      | Diagnosis     | ICD-10-CM |
| T65.221S | Toxic effect of tobacco cigarettes, accidental (unintentional), sequela                   | Diagnosis     | ICD-10-CM |
| T65.222  | Toxic effect of tobacco cigarettes, intentional self-harm                                 | Diagnosis     | ICD-10-CM |
| T65.222A | Toxic effect of tobacco cigarettes, intentional self-harm, initial encounter              | Diagnosis     | ICD-10-CM |
| T65.222D | Toxic effect of tobacco cigarettes, intentional self-harm, subsequent encounter           | Diagnosis     | ICD-10-CM |
| T65.222S | Toxic effect of tobacco cigarettes, intentional self-harm, sequela                        | Diagnosis     | ICD-10-CM |
| T65.223  | Toxic effect of tobacco cigarettes, assault   | Diagnosis     | ICD-10-CM |
| T65.223A | Toxic effect of tobacco cigarettes, assault, initial encounter                            | Diagnosis     | ICD-10-CM |
| T65.223D | Toxic effect of tobacco cigarettes, assault, subsequent encounter                         | Diagnosis     | ICD-10-CM |
| T65.223S | Toxic effect of tobacco cigarettes, assault, sequela                                      | Diagnosis     | ICD-10-CM |
| T65.224  | Toxic effect of tobacco cigarettes, undetermined  | Diagnosis     | ICD-10-CM |
| T65.224A | Toxic effect of tobacco cigarettes, undetermined, initial encounter                       | Diagnosis     | ICD-10-CM |
| T65.224D | Toxic effect of tobacco cigarettes, undetermined, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| T65.224S | Toxic effect of tobacco cigarettes, undetermined, sequela                                 | Diagnosis     | ICD-10-CM |
| T65.29   | Toxic effect of other tobacco and nicotine  | Diagnosis     | ICD-10-CM |
| T65.291  | Toxic effect of other tobacco and nicotine, accidental (unintentional)                    | Diagnosis     | ICD-10-CM |
| T65.291A | Toxic effect of other tobacco and nicotine, accidental (unintentional), initial encounter | Diagnosis     | ICD-10-CM |



**Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

| Code                                 | Description  | Code Category | Code Type |
|--------------------------------------|--|---------------|-----------|
| T65.291D                             | Toxic effect of other tobacco and nicotine, accidental (unintentional), subsequent encounter | Diagnosis     | ICD-10-CM |
| T65.291S                             | Toxic effect of other tobacco and nicotine, accidental (unintentional), sequela              | Diagnosis     | ICD-10-CM |
| T65.292                              | Toxic effect of other tobacco and nicotine, intentional self-harm                            | Diagnosis     | ICD-10-CM |
| T65.292A                             | Toxic effect of other tobacco and nicotine, intentional self-harm, initial encounter         | Diagnosis     | ICD-10-CM |
| T65.292D                             | Toxic effect of other tobacco and nicotine, intentional self-harm, subsequent encounter      | Diagnosis     | ICD-10-CM |
| T65.292S                             | Toxic effect of other tobacco and nicotine, intentional self-harm, sequela                   | Diagnosis     | ICD-10-CM |
| T65.293                              | Toxic effect of other tobacco and nicotine, assault  | Diagnosis     | ICD-10-CM |
| T65.293A                             | Toxic effect of other tobacco and nicotine, assault, initial encounter                       | Diagnosis     | ICD-10-CM |
| T65.293D                             | Toxic effect of other tobacco and nicotine, assault, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| T65.293S                             | Toxic effect of other tobacco and nicotine, assault, sequela                                 | Diagnosis     | ICD-10-CM |
| T65.294                              | Toxic effect of other tobacco and nicotine, undetermined                                     | Diagnosis     | ICD-10-CM |
| T65.294A                             | Toxic effect of other tobacco and nicotine, undetermined, initial encounter                  | Diagnosis     | ICD-10-CM |
| T65.294D                             | Toxic effect of other tobacco and nicotine, undetermined, subsequent encounter               | Diagnosis     | ICD-10-CM |
| T65.294S                             | Toxic effect of other tobacco and nicotine, undetermined, sequela                            | Diagnosis     | ICD-10-CM |
| Z87.891                              | Personal history of nicotine dependence  | Diagnosis     | ICD-10-CM |
| <b>Specific Personality Disorder</b> |  |               |           |
| F60                                  | Specific personality disorders   | Diagnosis     | ICD-10-CM |
| F60.0                                | Paranoid personality disorder  | Diagnosis     | ICD-10-CM |
| F60.1                                | Schizoid personality disorder  | Diagnosis     | ICD-10-CM |
| F60.2                                | Antisocial personality disorder  | Diagnosis     | ICD-10-CM |
| F60.3                                | Borderline personality disorder  | Diagnosis     | ICD-10-CM |
| F60.4                                | Histrionic personality disorder  | Diagnosis     | ICD-10-CM |
| F60.5                                | Obsessive-compulsive personality disorder  | Diagnosis     | ICD-10-CM |
| F60.6                                | Avoidant personality disorder  | Diagnosis     | ICD-10-CM |
| F60.7                                | Dependent personality disorder   | Diagnosis     | ICD-10-CM |
| F60.8                                | Other specific personality disorders   | Diagnosis     | ICD-10-CM |
| F60.81                               | Narcissistic personality disorder  | Diagnosis     | ICD-10-CM |
| F60.89                               | Other specific personality disorders   | Diagnosis     | ICD-10-CM |
| F60.9                                | Personality disorder, unspecified  | Diagnosis     | ICD-10-CM |
| <b>Weight Loss</b>                   |  |               |           |
| E44.0                                | Moderate protein-calorie malnutrition  | Diagnosis     | ICD-10-CM |
| E44.1                                | Mild protein-calorie malnutrition  | Diagnosis     | ICD-10-CM |
| E64.0                                | Sequelae of protein-calorie malnutrition   | Diagnosis     | ICD-10-CM |
| R63.4                                | Abnormal weight loss   | Diagnosis     | ICD-10-CM |
| R64                                  | Cachexia   | Diagnosis     | ICD-10-CM |

# Appendix E. Specifications Defining Parameters for this Request

A request was executed using the Cohort Identification and Descriptive Analysis (CIDA) tool version 13.1.2 to estimate geographic rates of single-dose doxycycline and patient factors in the Sentinel Distributed Database (SDD).

**Query period:** January 1, 2016 - December 31, 2020  
**Coverage requirement:** Medical & Drug Coverage  
**Pre-index enrollment requirement:** 30 days  
**Post-index requirement:** 30 days  
**Enrollment gap:** 45 days  
**Age groups:** Run 1: 0-4, 5-9, 10-14, 15-19  
Run 2: 0-7, 8-19  
**Stratifications:** Age group, Sex, Age Group x Year, Calendar Year, Year-Month, Race/Ethnicity, Urbanicity, Incidence, and Geographic Region (State)  
**Censor output categorization:** N/A  
**Restrictions:** Sex to Male and Female  
**Distribution of index-defining codes:** N/A  
**Envelope macro:** Reclassify encounters during inpatient stay as inpatient  
**Freeze data:** None

| Exposure/Event |             |                      |   |                |  |                  |                              |  |                        |   |
|----------------|-------------|----------------------|---|----------------|--|------------------|------------------------------|--|------------------------|---|
| Scenario       | Group       | Index Exposure/Event | Cohort Definition                               | Washout Period | Exclude Evidence of Days Supply if Exposure Washout Includes Dispensings | Care Setting     | Principal Diagnosis Position | Forced Supply to Attach to Dispensings | Create Baseline Table? | Censor Enrollment at Evidence Of                      |
| 1              | first_doxy  | Doxycycline          | 01 - First valid index date during query period |                | Handled via plus programming   | Any Care Setting | N/A                          | N/A                                    | Yes                    | *Death;<br>*Data Partner End Date;<br>*Query End Date |
| 2              | all_doxy    | Doxycycline          | 02 - All valid index dates during query period  |                | Handled via plus programming   | Any Care Setting | N/A                          | N/A                                    | Yes                    | *Death;<br>*Data Partner End Date;<br>*Query End Date |
| 3              | obderm_doxy | Doxycycline          | 02 - All valid index dates during query period  |                | Handled via plus programming   | Any Care Setting | N/A                          | N/A                                    | Yes                    | *Death;<br>*Data Partner End Date;<br>*Query End Date |

ICD-9, ICD-10, HCPCS, and CPT codes are provided by Optum360.

NDC codes are checked against First Data Bank's FDB MedKnowledge®.

Rates and ratios will be calculated and output as tables. Ratios are calculated as (number of patients/ eligible members)\*10,000 and rates are calculated as (number of episodes/ (number of eligible members/365.25))\*10,000.

N/A: Not Applicable

## Appendix E. Specifications Defining Parameters for this Request

| Inclusion/Exclusion Criteria |   |           |                        |                                    |                               |                             |   |   |                             |                               |                                  |                                  |                                  |                                  |   |
|------------------------------|---|-----------|------------------------|------------------------------------|-------------------------------|-----------------------------|---|---|-----------------------------|-------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|---|
| Scenario                     | Inclusion/<br>Exclusion                     | Criteria  | Care<br>Setting        | Principal<br>Diagnosis<br>Position | Evaluation<br>Period<br>Start | Evaluation<br>Period<br>End | Exclude Evidence<br>of Days Supply if<br>Inclusion/<br>Exclusion<br>Includes<br>Dispensings | Number of<br>Instances the<br>Criteria<br>Should be<br>Found in<br>Evaluation<br>Period | Minimum<br>Days<br>Supplied | Minimum<br>Cumulative<br>Dose | Minimum<br>Average<br>Daily Dose | Maximum<br>Average<br>Daily Dose | Minimum<br>Current<br>Daily Dose | Maximum<br>Current<br>Daily Dose | Forced<br>Supply to<br>Attach to<br>Dispensings |
| 1                            | N/A   | N/A       | N/A                    | N/A                                | N/A                           | N/A                         | N/A   | N/A   | N/A                         | N/A                           | N/A                              | N/A                              | N/A                              | N/A                              | N/A   |
| 2                            | N/A   | N/A       | N/A                    | N/A                                | N/A                           | N/A                         | N/A   | N/A   | N/A                         | N/A                           | N/A                              | N/A                              | N/A                              | N/A                              | N/A   |
| 3                            | Obstetric and<br>Dermatologic<br>Conditions | Exclusion | Any<br>Care<br>Setting | N/A                                | -30                           | 30                          | N/A   | 1   | N/A                         | N/A                           | N/A                              | N/A                              | N/A                              | N/A                              | N/A   |

ICD-9, ICD-10, HCPCS, and CPT codes are provided by Optum360.

NDC codes are checked against First Data Bank's FDB MedKnowledge®.

Rates and ratios will be calculated and output as tables. Ratios are calculated as (number of patients/eligible members)\*10,000 and rates are calculated as (number of episodes/(number of eligible membes/365.25))\*10,000.

N/A: Not Applicable

## Appendix F. Specifications Defining Baseline Characteristics in this Request

### Covariates

| Covariate Number | Covariate      | Care Setting | Principal Diagnosis Position | Code Category <sup>1</sup> | Evaluation Period Start | Evaluation Period End | Exclude Evidence of Days Supply if Covariate Includes Dispensings | Number of Instances the Covariate Should be Found in Evaluation Period | Minimum Days Supplied | Minimum Cumulative Dose | Minimum Average Daily Dose | Forced Supply to Attach to Dispensings | Lab Date Selection Algorithm | Lab Result Values |
|------------------|----------------|--------------|------------------------------|----------------------------|-------------------------|-----------------------|---|--|-----------------------|-------------------------|----------------------------|--|------------------------------|-------------------|
| N/A              | Age            |              |                              |                            | 0                       | 0                     |   |  |                       |                         |                            |  |                              |                   |
| N/A              | Sex            |              |                              |                            | 0                       | 0                     |   |  |                       |                         |                            |  |                              |                   |
| N/A              | Race/Ethnicity |              |                              |                            | 0                       | 0                     |   |  |                       |                         |                            |  |                              |                   |
| N/A              | Year           |              |                              |                            | 0                       | 0                     |   |  |                       |                         |                            |  |                              |                   |
| N/A              | Urbanicity     |              |                              |                            | 0                       | 0                     |   |  |                       |                         |                            |  |                              |                   |

|     |                             |  |  |  |      |   |  |  |  |  |  |  |  |  |
|-----|-----------------------------|--|--|--|------|---|--|--|--|--|--|--|--|--|
| N/A | Pediatric Comorbidity Index |  |  |  | -183 | 0 |  |  |  |  |  |  |  |  |
|-----|-----------------------------|--|--|--|------|---|--|--|--|--|--|--|--|--|

### Dispensing Form

|   |            |                  |     |    |   |   |  |   |     |     |     |     |     |     |
|---|------------|------------------|-----|----|---|---|--|---|-----|-----|-----|-----|-----|-----|
| 1 | Capsule    | Any Care Setting | N/A | RX | 0 | 0 | Evaluation period should search for only evidence of a dispensing date | 1 | N/A | N/A | N/A | N/A | N/A | N/A |
| 2 | Suspension | Any Care Setting | N/A | RX | 0 | 0 | Evaluation period should search for only evidence of a dispensing date | 1 | N/A | N/A | N/A | N/A | N/A | N/A |
| 3 | Tablet     | Any Care Setting | N/A | RX | 0 | 0 | Evaluation period should search for only evidence of a dispensing date | 1 | N/A | N/A | N/A | N/A | N/A | N/A |
| 4 | Syrup      | Any Care Setting | N/A | RX | 0 | 0 | Evaluation period should search for only evidence of a dispensing date | 1 | N/A | N/A | N/A | N/A | N/A | N/A |

## Appendix F. Specifications Defining Baseline Characteristics in this Request

### Covariates

| Covariate Number                      | Covariate                             | Care Setting     | Principal Diagnosis Position | Code Category <sup>1</sup> | Evaluation Period Start | Evaluation Period End | Exclude Evidence of Days Supply if | Number of Instances the                        | Minimum Days Supplied | Minimum Cumulative Dose | Minimum Average Daily Dose | Forced                          | Lab Date Selection Algorithm | Lab Results |
|---------------------------------------|---------------------------------------|------------------|------------------------------|----------------------------|-------------------------|-----------------------|------------------------------------|--|-----------------------|-------------------------|----------------------------|---------------------------------|------------------------------|-------------|
|                                       |                                       |                  |                              |                            |                         |                       | Covariate Includes Dispensings     | Covariate Should be Found in Evaluation Period |                       |                         |                            | Supply to Attach to Dispensings |                              |             |
|                                       |                                       |                  |                              |                            |                         |                       | Indications                        |  |                       |                         |                            |                                 |                              |             |
| 5                                     | Arthropod Encounter                   | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A                                | 1  | N/A                   | N/A                     | N/A                        | N/A                             | N/A                          | N/A         |
| 6                                     | Macroscopic Examination for Arthropod | Any Care Setting | N/A                          | PX                         | -7                      | 7                     | N/A                                | 1  | N/A                   | N/A                     | N/A                        | N/A                             | N/A                          | N/A         |
| 7                                     | Any Tickborne Disease (Lyme or Other) | Any Care Setting | N/A                          | DX, PX                     | -7                      | 7                     | N/A                                | 1  | N/A                   | N/A                     | N/A                        | N/A                             | N/A                          | N/A         |
| 8                                     | Lyme Disease                          | Any Care Setting | N/A                          | DX, PX                     | -7                      | 7                     | N/A                                | 1  | N/A                   | N/A                     | N/A                        | N/A                             | N/A                          | N/A         |
| 9-19                                  | Lyme Disease by Code                  | Any Care Setting | N/A                          | DX, PX                     | -7                      | 7                     | N/A                                | 1  | N/A                   | N/A                     | N/A                        | N/A                             | N/A                          | N/A         |
| 20                                    | Other Tickborne Disease               | Any Care Setting | N/A                          | DX, PX                     | -7                      | 7                     | N/A                                | 1  | N/A                   | N/A                     | N/A                        | N/A                             | N/A                          | N/A         |
| 21-33                                 | Other Tickborne Disease by Code       | Any Care Setting | N/A                          | DX, PX                     | -7                      | 7                     | N/A                                | 1  | N/A                   | N/A                     | N/A                        | N/A                             | N/A                          | N/A         |
| Obstetric and Dermatologic Conditions |                                       |                  |                              |                            |                         |                       |                                    |  |                       |                         |                            |                                 |                              |             |
| 34                                    | Any Obstetric Condition               | Any Care Setting | N/A                          | DX, PX                     | -7                      | 7                     | N/A                                | 1  | N/A                   | N/A                     | N/A                        | N/A                             | N/A                          | N/A         |
| 35                                    | Any Dermatologic Condition            | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A                                | 1  | N/A                   | N/A                     | N/A                        | N/A                             | N/A                          | N/A         |
| Baseline Conditions                   |                                       |                  |                              |                            |                         |                       |                                    |  |                       |                         |                            |                                 |                              |             |

## Appendix F. Specifications Defining Baseline Characteristics in this Request

### Covariates

| Covariate Number | Covariate                                | Care Setting     | Principal Diagnosis Position | Code Category <sup>1</sup> | Evaluation Period Start | Evaluation Period End | Exclude Evidence of Days Supply if | Number of Instances the Covariate Should be Found in Evaluation Period | Minimum Days Supplied | Minimum Cumulative Dose | Minimum Average Daily Dose | Forced Supply to Attach to Dispensings | Lab Date Selection Algorithm | Lab Result Values |
|------------------|--|------------------|------------------------------|----------------------------|-------------------------|-----------------------|------------------------------------|--|-----------------------|-------------------------|----------------------------|--|------------------------------|-------------------|
|                  |  |                  |                              |                            |                         |                       | Covariate Includes Dispensings     |  |                       |                         |                            |  |                              |                   |
| 36               | Attention Deficit Hyperactivity Disorder | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A                                | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 37               | Alcohol Abuse or Dependence              | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A                                | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 38               | Anemia                                   | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A                                | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 39               | Anxiety or Panic Disorder                | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A                                | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 40               | Any Malignancy                           | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A                                | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 41               | Asthma                                   | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A                                | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 42               | Cardiovascular Conditions                | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A                                | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 43               | Chromosomal Anomalies                    | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A                                | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 44               | Conduct Disorder                         | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A                                | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 45               | Congenital Malformations                 | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A                                | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |



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### Covariates

| Covariate Number | Covariate                | Care Setting     | Principal Diagnosis Position | Code Category <sup>1</sup> | Evaluation Period Start | Evaluation Period End | Exclude Evidence of Days Supply if Covariate Includes Dispensings | Number of Instances the Covariate Should be Found in Evaluation Period | Minimum Days Supplied | Minimum Cumulative Dose | Minimum Average Daily Dose | Forced Supply to Attach to Dispensings | Lab Date Selection Algorithm | Lab Result Values |
|------------------|--------------------------|------------------|------------------------------|----------------------------|-------------------------|-----------------------|---|--|-----------------------|-------------------------|----------------------------|--|------------------------------|-------------------|
| 46               | Depression               | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 47               | Developmental Delays     | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 48               | Diabetes Mellitus        | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 49               | Drug Abuse or Dependence | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 50               | Eating Disorders         | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 51               | Epilepsy or Convulsions  | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 52               | GI Conditions            | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 53               | Injuries                 | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 54               | Joint Disorders          | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 55               | Menstrual Disorders      | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |

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### Covariates

| Covariate Number | Covariate                         | Care Setting     | Principal Diagnosis Position | Code Category <sup>1</sup> | Evaluation Period Start | Evaluation Period End | Exclude Evidence of Days Supply if Covariate Includes Dispensings | Number of Instances the Covariate Should be Found in Evaluation Period | Minimum Days Supplied | Minimum Cumulative Dose | Minimum Average Daily Dose | Forced Supply to Attach to Dispensings | Lab Date Selection Algorithm | Lab Result Values |
|------------------|-----------------------------------|------------------|------------------------------|----------------------------|-------------------------|-----------------------|---|--|-----------------------|-------------------------|----------------------------|--|------------------------------|-------------------|
| 56               | Migraine or Headache              | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 57               | Nausea and Vomiting               | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 58               | Obesity or Overweight             | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 59               | Obsessive-Compulsive Disorder     | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 60               | Pain Conditions                   | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 61               | Pervasive Developmental Disorders | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 62               | Psychotic Disorders               | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 63               | Rheumatologic Disorders           | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 64               | Sleep Disorders                   | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 65               | Smoking                           | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |

## Appendix F. Specifications Defining Baseline Characteristics in this Request

### Covariates

| Covariate Number | Covariate                             | Care Setting     | Principal Diagnosis Position | Code Category <sup>1</sup> | Evaluation Period Start | Evaluation Period End | Exclude Evidence of Days Supply if Covariate Includes Dispensings | Number of Instances the Covariate Should be Found in Evaluation Period | Minimum Days Supplied | Minimum Cumulative Dose | Minimum Average Daily Dose | Forced Supply to Attach to Dispensings | Lab Date Selection Algorithm | Lab Result Values |
|------------------|---------------------------------------|------------------|------------------------------|----------------------------|-------------------------|-----------------------|---|--|-----------------------|-------------------------|----------------------------|--|------------------------------|-------------------|
| 66               | Specific Personality Disorder         | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 67               | Weight Loss                           | Any Care Setting | N/A                          | DX                         | -7                      | 7                     | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| Encounters       |                                       |                  |                              |                            |                         |                       |   |  |                       |                         |                            |  |                              |                   |
| 131              | Inpatient Encounter                   |                  |                              |                            | -7                      | 7                     |   |  |                       |                         |                            |  |                              |                   |
| 132              | Emergency Department Encounter        |                  |                              |                            | -7                      | 7                     |   |  |                       |                         |                            |  |                              |                   |
| 133              | Ambulatory Encounter                  |                  |                              |                            | -7                      | 7                     |   |  |                       |                         |                            |  |                              |                   |
| 134              | Other Ambulatory Encounter            |                  |                              |                            | -7                      | 7                     |   |  |                       |                         |                            |  |                              |                   |
| 135              | Institutional Stay Encounter          |                  |                              |                            | -7                      | 7                     |   |  |                       |                         |                            |  |                              |                   |
| 136              | No Encounter                          |                  |                              |                            | -7                      | 7                     |   |  |                       |                         |                            |  |                              |                   |
| Indications      |                                       |                  |                              |                            |                         |                       |   |  |                       |                         |                            |  |                              |                   |
| 68               | Arthropod encounter                   | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 69               | Macroscopic examination for arthropod | Any Care Setting | N/A                          | PX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 70               | Any tickborne disease (Lyme or other) | Any Care Setting | N/A                          | DX, PX                     | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |

## Appendix F. Specifications Defining Baseline Characteristics in this Request

### Covariates

| Covariate Number                      | Covariate                        | Care Setting     | Principal Diagnosis Position | Code Category <sup>1</sup> | Evaluation Period Start | Evaluation Period End | Exclude Evidence of Days Supply if Covariate Includes Dispensings | Number of Instances the Covariate Should be Found in Evaluation Period | Minimum Days Supplied | Minimum Cumulative Dose | Minimum Average Daily Dose | Forced Supply to Attach to Dispensings | Lab Date Selection Algorithm | Lab Result Values |
|---------------------------------------|----------------------------------|------------------|------------------------------|----------------------------|-------------------------|-----------------------|---|--|-----------------------|-------------------------|----------------------------|--|------------------------------|-------------------|
| 71                                    | Lyme disease                     | Any Care Setting | N/A                          | DX, PX                     | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 72-82                                 | Lyme disease by code             | Any Care Setting | N/A                          | DX, PX                     | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 83                                    | Other tickborne diseases         | Any Care Setting | N/A                          | DX, PX                     | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 84-96                                 | Other tickborne diseases by code | Any Care Setting | N/A                          | DX, PX                     | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| Obstetric and Dermatologic Conditions |                                  |                  |                              |                            |                         |                       |   |  |                       |                         |                            |  |                              |                   |
| 97                                    | Any obstetric condition          | Any Care Setting | N/A                          | DX, PX                     | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 98                                    | Any dermatologic condition       | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| Baseline Conditions                   |                                  |                  |                              |                            |                         |                       |   |  |                       |                         |                            |  |                              |                   |
| 99                                    | ADHD                             | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 100                                   | Alcohol abuse or dependence      | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 101                                   | Anemia                           | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |

## Appendix F. Specifications Defining Baseline Characteristics in this Request

### Covariates

| Covariate Number | Covariate                 | Care Setting     | Principal Diagnosis Position | Code Category <sup>1</sup> | Evaluation Period Start | Evaluation Period End | Exclude Evidence of Days Supply if Covariate Includes Dispensings | Number of Instances the Covariate Should be Found in Evaluation Period | Minimum Days Supplied | Minimum Cumulative Dose | Minimum Average Daily Dose | Forced Supply to Attach to Dispensings | Lab Date Selection Algorithm | Lab Result Values |
|------------------|---------------------------|------------------|------------------------------|----------------------------|-------------------------|-----------------------|---|--|-----------------------|-------------------------|----------------------------|--|------------------------------|-------------------|
| 102              | Anxiety or Panic Disorder | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 103              | Any Malignancy            | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 104              | Asthma                    | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 105              | Cardiovascular Conditions | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 106              | Chromosomal Anomalies     | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 107              | Conduct Disorder          | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 108              | Congenital Malformations  | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 109              | Depression                | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 110              | Developmental Delays      | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 111              | Diabetes Mellitus         | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |

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### Covariates

| Covariate Number | Covariate                | Care Setting     | Principal Diagnosis Position | Code Category <sup>1</sup> | Evaluation Period Start | Evaluation Period End | Exclude Evidence of Days Supply if Covariate Includes Dispensings | Number of Instances the Covariate Should be Found in Evaluation Period | Minimum Days Supplied | Minimum Cumulative Dose | Minimum Average Daily Dose | Forced Supply to Attach to Dispensings | Lab Date Selection Algorithm | Lab Result Values |
|------------------|--------------------------|------------------|------------------------------|----------------------------|-------------------------|-----------------------|---|--|-----------------------|-------------------------|----------------------------|--|------------------------------|-------------------|
| 112              | Drug Abuse or Dependence | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 113              | Eating Disorders         | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 114              | Epilepsy or Convulsions  | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 115              | GI Conditions            | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 116              | Injuries                 | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 117              | Joint Disorders          | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 118              | Menstrual Disorders      | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 119              | Migraine or Headache     | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 120              | Nausea and Vomiting      | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 121              | Obesity or Overweight    | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |



# Appendix F. Specifications Defining Baseline Characteristics in this Request

| Covariates       |                                   |                  |                              |                            |                         |                       |   |  |                       |                         |                            |  |                              |                   |
|------------------|-----------------------------------|------------------|------------------------------|----------------------------|-------------------------|-----------------------|---|--|-----------------------|-------------------------|----------------------------|--|------------------------------|-------------------|
| Covariate Number | Covariate                         | Care Setting     | Principal Diagnosis Position | Code Category <sup>1</sup> | Evaluation Period Start | Evaluation Period End | Exclude Evidence of Days Supply if Covariate Includes Dispensings | Number of Instances the Covariate Should be Found in Evaluation Period | Minimum Days Supplied | Minimum Cumulative Dose | Minimum Average Daily Dose | Forced Supply to Attach to Dispensings | Lab Date Selection Algorithm | Lab Result Values |
| 122              | Obsessive-Compulsive Disorder     | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 123              | Pain Conditions                   | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 124              | Pervasive Developmental Disorders | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 125              | Psychotic Disorders               | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 126              | Rheumatologic Disorders           | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 127              | Sleep Disorders                   | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 128              | Smoking                           | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 129              | Specific Personality Disorder     | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| 130              | Weight Loss                       | Any Care Setting | N/A                          | DX                         | -30                     | 30                    | N/A   | 1  | N/A                   | N/A                     | N/A                        | N/A                                    | N/A                          | N/A               |
| Encounters       |                                   |                  |                              |                            |                         |                       |   |  |                       |                         |                            |  |                              |                   |
| 137              | Inpatient Encounter               |                  |                              |                            | -30                     | 30                    |   |  |                       |                         |                            |  |                              |                   |

# Appendix F. Specifications Defining Baseline Characteristics in this Request

## Covariates

| Covariate Number | Covariate                      | Care Setting | Principal Diagnosis Position | Code Category <sup>1</sup> | Evaluation Period Start | Evaluation Period End | Exclude Evidence of Days Supply if Covariate Includes Dispensings | Number of Instances the Covariate Should be Found in Evaluation Period | Minimum Days Supplied | Minimum Cumulative Dose | Minimum Average Daily Dose | Forced Supply to Attach to Dispensings | Lab Date Selection Algorithm | Lab Result Values |
|------------------|--------------------------------|--------------|------------------------------|----------------------------|-------------------------|-----------------------|---|--|-----------------------|-------------------------|----------------------------|--|------------------------------|-------------------|
| 138              | Emergency Department Encounter |              |                              |                            | -30                     | 30                    |   |  |                       |                         |                            |  |                              |                   |
| 139              | Ambulatory Encounter           |              |                              |                            | -30                     | 30                    |   |  |                       |                         |                            |  |                              |                   |
| 140              | Other Ambulatory Encounter     |              |                              |                            | -30                     | 30                    |   |  |                       |                         |                            |  |                              |                   |
| 141              | Institutional Stay Encounter   |              |                              |                            | -30                     | 30                    |   |  |                       |                         |                            |  |                              |                   |
| 142              | No Encounter                   |              |                              |                            | -30                     | 30                    |   |  |                       |                         |                            |  |                              |                   |

<sup>1</sup>Code Category Legend: RX=Drug Code, DX=Diagnosis Code, PX=Procedure Code  
N/A: Not Applicable

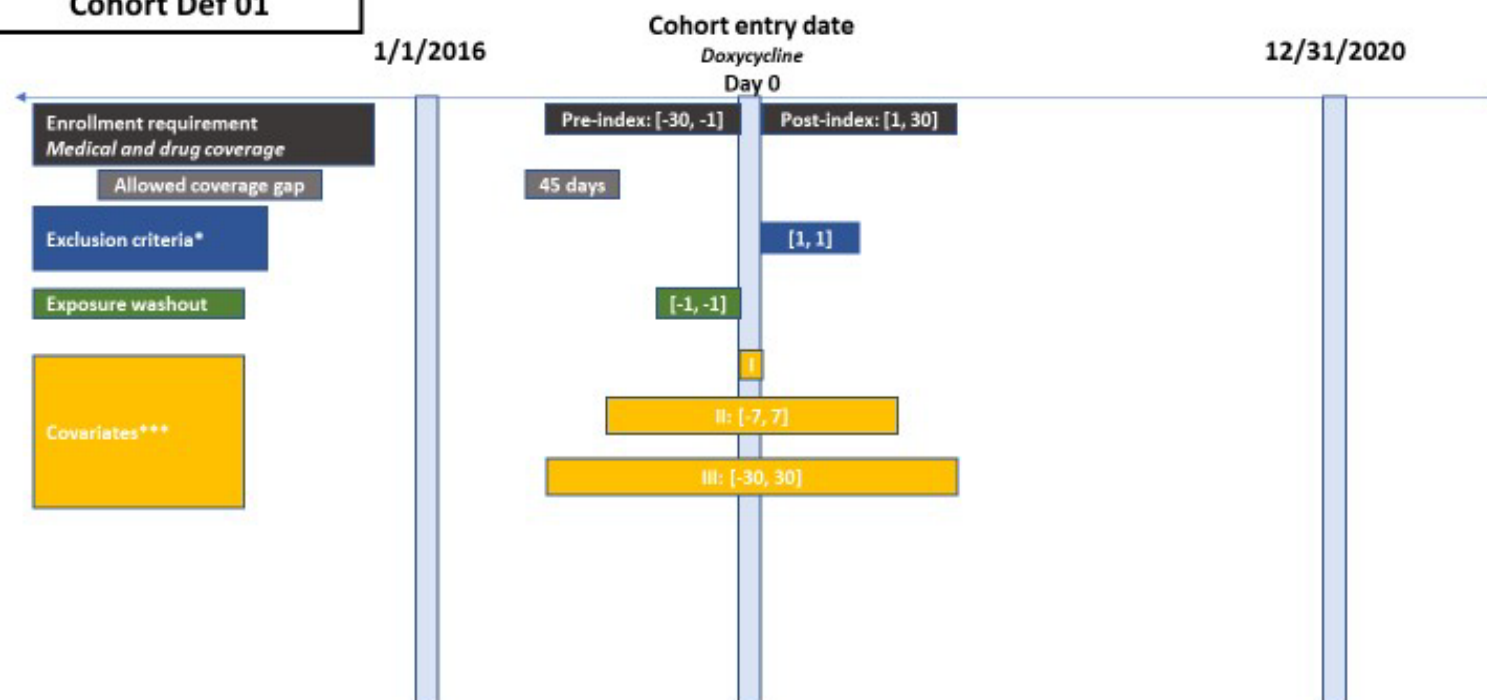
## Appendix G. Specifications Defining Risk Score Parameters for this Request

| Risk Score                  |                         |                       |                       |
|-----------------------------|-------------------------|-----------------------|-----------------------|
| Risk Score                  | Evaluation Period Start | Evaluation Period End | Risk Score Categories |
| Pediatric Comorbidity Index | -183                    | 0                     | N/A                   |

**Reference for pediatric comorbidity index:** Sun JW, Bourgeois FT, Haneuse S, Hernández-Díaz S, Landon JE, Bateman BT, Huybrechts KF. Development and Validation of a Pediatric Comorbidity Index. *Am J Epidemiol.* 2021 May 4;190(5):918-927. <https://pubmed.ncbi.nlm.nih.gov/33124649/>

## Appendix H. Design Diagram of Cohort Entry Requirements and Index Exposure

### Type 1 design diagram: Cohort Def 01

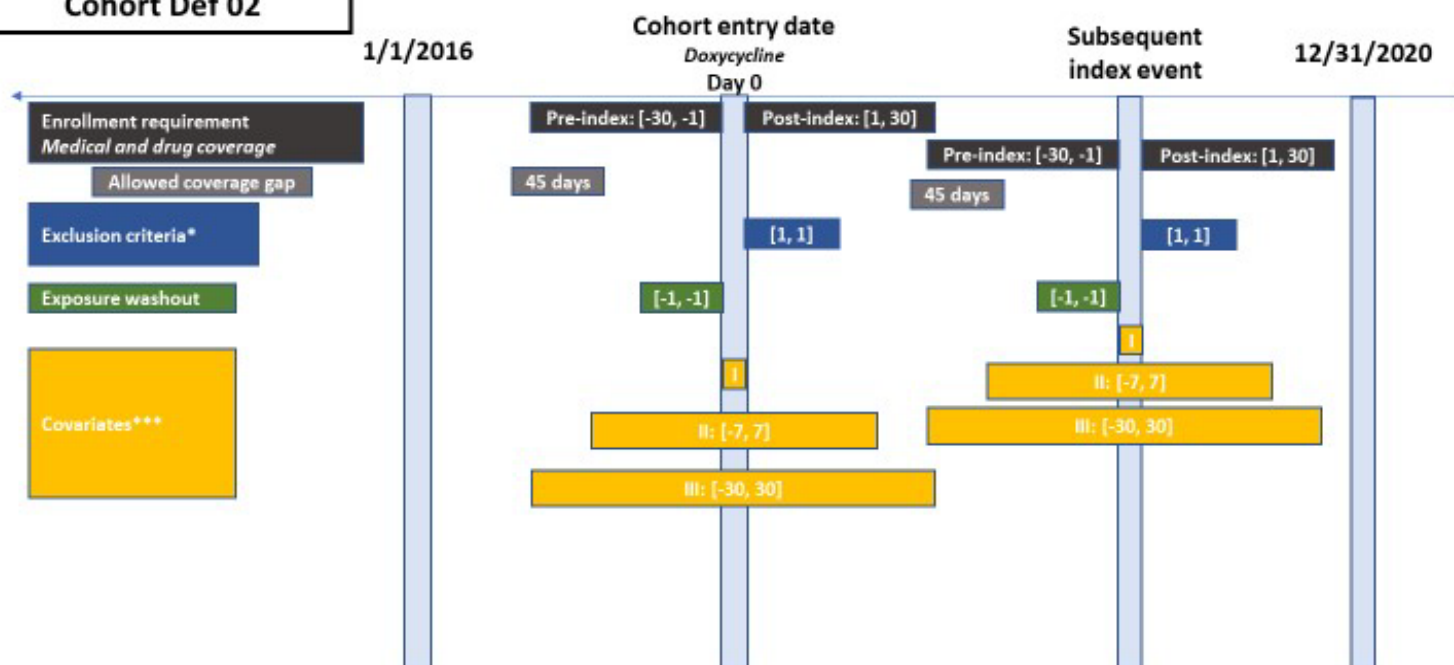


\*Exclusion Criteria  
Doxycycline

\*\*\*Covariates:  
Window I: Age, year, race/ethnicity, sex, urbanicity, dispensing form  
Window II: Lyme indications, Obstetric and dermatologic conditions, characteristics of interest, care setting encounters  
Window III: Same as Window II

# Appendix H. Design Diagram of Cohort Entry Requirements and Index Exposure

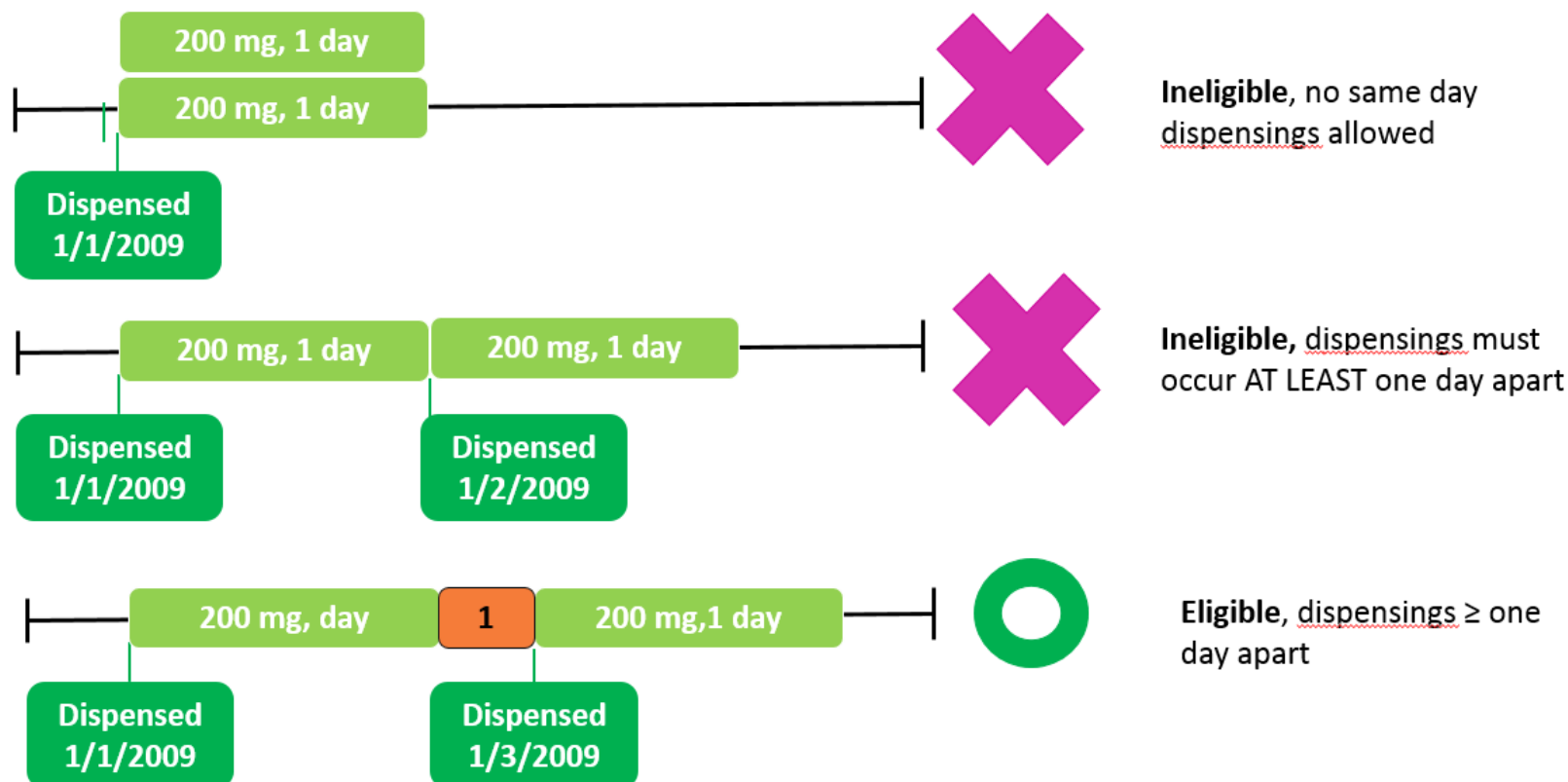
## Type 1 design diagram: Cohort Def 02



\*Exclusion Criteria  
Doxycycline

\*\*\*Covariates:  
Window I: Age, year, race/ethnicity, sex, urbanicity, dispensing form  
Window II: Lyme indications, Obstetric and dermatologic conditions, characteristics of interest, care setting encounters  
Window III: Same as Window II

Cohort entry date: Doxycycline, ( $\leq 200$  mg, 1 day supply ), illustration of isolated dispensings





Cohort entry date: Doxycycline, ( $\leq 200$  mg, 1 day supply ), illustration of isolated dispensings

